

Chapter 1
Turf Management and Event Operations
Guide for the Mall, Lincoln Memorial, Washington Monument,
and Jefferson Memorial

National Park Service Operations and Maintenance Manual April 1, 2015



CHAPTER 1: TURF MANAGEMENT AND EVENT OPERATIONS AND MAINTENANCE GUIDE FOR THE MALL

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1 Park Use and Resource Protection Planning Guide

1.1 Protecting Level 1 Turf Areas

Level 1 areas in the National Mall and Memorial Parks consist of turf areas in the monumental core. Memorials such as the Jefferson, Lincoln, Korean War, World War II, and the Washington Monument are considered Level 1 Turf Areas. In addition, iconic landscapes such as the Mall and along the Reflecting Pool shall be considered Level 1.

Level 1 means that the turf is maintained at the highest level of care and excellence. Grounds are manicured. Level 1 is appropriate for high traffic areas such as public squares and gathering areas, as well as commemorative works of memorials. Based on public scoping done in conjunction with the <u>National Mall Plan</u>, the American people thinks that this is the level with which the National Mall should be maintained.

Level 1 turf regulations may be modified by the Superintendent for National and Historic Events. Current National Celebrations include:

- Cherry Blossom Festival
- Fourth of July Celebration
- Smithsonian Folklife Festival
- Presidential Inaugural Ceremonies
- Columbus Day Commemorative Wreath Laying

Level 1 areas such as the Mall are highly desirable for all kinds of uses and have been typically scheduled for over 800 days of permitted use per calendar year. On the Mall the result was the decline of turf health and visual appearance and deteriorating soil conditions. By 2006, conditions were judged to be unsatisfactory to the National Park Service, Department of the Interior, Congress and the American public. The large number of permitted activities limited maintenance practices to renovation of half of the center turf panels every other year by taking the panels out of use for the winter. This approach, based on recovery and not prevention, has not been effective.

The National Park Service has invested in a major multi-phase landscape and soil restoration, drainage, and irrigation project on the Mall that will be complete by the end of 2016. The high tech turf and soil system is similar to systems used on professional sports fields and includes durable strains of turf grass. This manual sets out standards to protect both the Mall's signature turf character and the significant investment. Developed in consultation with turf experts, incorporating best practices and new information, it establishes a different approach to resource protection and maintenance procedures.

While not all level 1 areas will benefit from such construction, the goal with level 1 turf is to maintain turf, a contributing feature of this highly significant, designed historic landscape,



in good to excellent condition even as it is used for a variety of permitted activities and recreational uses. Rather than taking large areas out of use for long time periods, the new approach will consistently utilize a combination of:

- intense maintenance procedures before, during, and after events that will reduce or eliminate the need to take large areas out of use for longer time periods;
- spaces designed or designated for specific types of uses;
- encouraging use of non-turf areas by allowing temporary facilities on designated nonturf areas for longer time periods than on turfgrass areas; and
- Requirements for temporary facilities placed on turf as described in tables 2 and 3 in this Chapter of the document.

Between events, NPS will perform pre-event preparation and post-event restorative and preventative maintenance on level 1 turf areas. The cost of any maintenance outside normal operating procedures in order to support or recover from an event, shall be considered part of the cost recovery for the event and is the responsibility of the Permittee.

1.2 Introduction to the Level 1 Areas within the National Mall, the NPS Regulatory Process, and Park Resource Protection

The National Mall's landscapes and open spaces provide a stunning visual setting in our Nation's capital. "Here orchestrated events involving thousands of people or spontaneous ones with just a few participants are equally fitting. Space here is ever changing – at one point defined, at the next open and casual-but it is seldom limited to a single or even predominating use. In this sense the Mall's space is neutral, allowing people freely to engage themselves in myriad ways..." The Mall in Washington, 1791-1991 15 (Richard Longstreth, ed.)(2002).

Permitted use is granted on a first come/first serve basis, through an application process. Applications are accepted no more than **one year in advance** of the first day of setup of the proposed event. Details regarding the permit process can be found in the *Special Events Planning Guide for the National Capital Region* (referred to in this document as the "SEPG" or "Special Events Planning Guide").

Consistent with the NPS's statutory mandate to protect parkland for the enjoyment of visitors while leaving it unimpaired for the enjoyment of future generations, the NPS regulations help protect park resources while managing assorted activities that may occur there. The terms "demonstrations" and "special event" are defined in the NPS regulations at 36 CFR 7.96(g)(1)(i)(ii). While demonstrations that involve 25 persons or fewer do not generally require a permit, all other demonstrations as well as all special events require that an application be submitted and a permit issued, per 36 CFR 7.96(g)(2)(3). The NPS does not accept applications more than one year in advance (including set-up time, if any) and they will be processed in order of receipt, per 36 CFR 7.96(g)(4)(i).

The NPS reviews applications and based upon regulatory criteria found at 36 CFR 7.96(g)(4)(vii)(A)-(D) and 36 CFR 7.96(g)(5)(v)(A)-(E) and determines whether a permit may be issued. Among the criteria the NPS considers is whether the park area requested is "reasonably suited in terms of accessibility, size and nature" or whether the proposed event "is of such a nature or duration that it cannot reasonably be accommodated in the particular area applied for; in that event, the Regional Director shall propose an alternate site to the applicant, if available for the activity; in this connection, the Regional Director



shall reasonably take into account possible damage to the park, including trees, shrubbery, other plantings, park installations and statues." In the event that a permit is issued, 36 CFR 7.96(g)(5)(xii) provides that the NPS "may impose reasonable restrictions upon the use of temporary structures in the interest of protecting the park areas involved, traffic and public safety considerations, and other legitimate park value concerns." Permits may be accepted during the hours of 8am to 4pm Monday through Friday, holidays excepted.

In addition to specific regulations governing the National Capital Region, initial sections of 36 CFR regulate "proper use, management, government, and protection of persons, property, and natural and cultural resources within areas under the jurisdiction of the National Park Service." Section 1.5 governs *Closures and Public Use Limits* and provides a superintendent with the ability to designate areas for specific use or activities, impose conditions on use and other actions in order to maintain public health and safety; protect environmental and scenic values, protect natural and cultural resources, aid scientific research, and equitably allocate use to avoid conflict among visitor use activities. Section 1.6 states permits will be submitted during normal business hours unless otherwise specified, requires a compilation listing permitted activities that is available to the public upon request, and prohibits violation of permit process. Section 1.7 requires public notice when the authority of section 1.5 is invoked.

This Turf Management Operations and Maintenance Guide for the Mall, in conjunction with the "Special Events Planning Guide" and regulations in 36 CFR, is intended to be used by the NPS as it considers the potential impact caused by an application seeking to use the turf and its consideration of various turf protection measures. This document is also intended to advise and alert applicants of these turf issues, which the NPS will discuss as their application is processed. Certain permitted events that may impact the turf and either involve extensive logistical set-up, or the erection, construction or placement of structure or equipment such as tents, stands, platforms, or portable toilets will require the NPS and the applicant to work early together. That way, if a permit is issued, park resources are reasonably protected while the permitted activity can be safe, successful, and enjoyable. The Turf Management Operations and Maintenance Guide for the Level 1 areas describes special requirements that apply only to the Level 1 areas.

A smooth and well-coordinated relationship between NPS staff and the applicant's staff is essential for the Permittee to have a successful event that furthers its desired message and provides attendees a safe and comfortable experience, while protecting park resources. To help establish this important collaboration, the NPS created this Turf Management Operations and Maintenance Guide for Level 1 areas to help alert interested parties to the impact caused by permitted activities to turf and to detail various turf protection measures, to assist in each step in the event planning process.



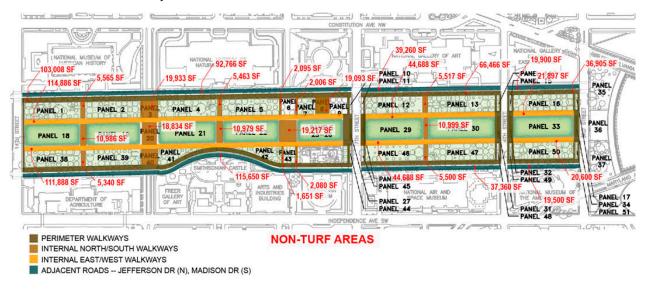
1.3 Mall Site

Located in the heart of Washington DC, the Mall is defined as the area bound on the east by Third Street, on the west by 14th Street, on the north by Madison Drive, and on the south by Jefferson Drive.

The following maps illustrate areas in which Permittees may hold events. Where applicable, use limitations are noted. For additional details on event capacity, refer to section 3.3/Table 7.

1.3.1 Non-Turf Areas for Temporary Structures

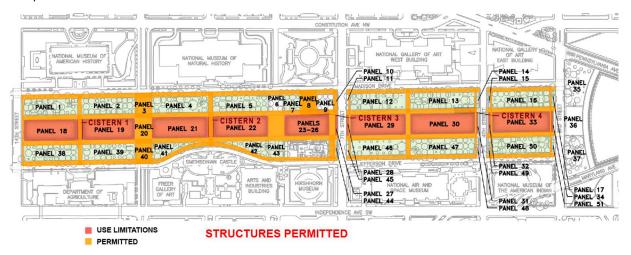
Non-turf areas such as walkways and hardscape panels are the preferred location for events of all types, particularly events using structures. Non-turf areas are highlighted in orange on the diagram below. Total square footage of non-turf areas is approximately 800,000 square feet. This includes four hardscape panels (3, 8, 20, and 40), as well as the north-south and east-west walkways.





1.3.2 Turf Area Locations for Temporary Structures

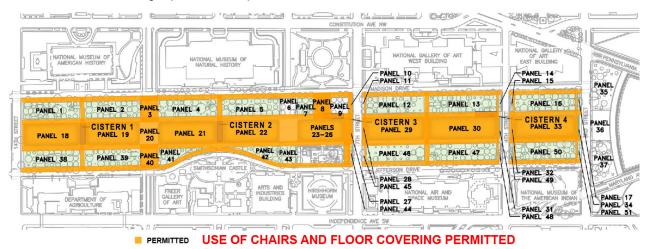
Structures are permitted on all walkways and hardscape. Structures can be permitted on turf panels with limitations listed in Section 3.3. The yellow areas on the diagram below indicate areas where structures are permitted; the red areas indicate areas where structures are permitted but with use limitations to protect the turf. Structures are not allowed in the tree panels.





1.3.3 Locations for Setup of Chairs or Other Seating

Setup of chairs or other seating is permitted on all walkways, hardscape panels, and turf panels (with protective turf covering). The orange areas on the diagram below indicate areas where seating setup is permitted. Appropriate turf cover must be used when seating is placed on turf panels².



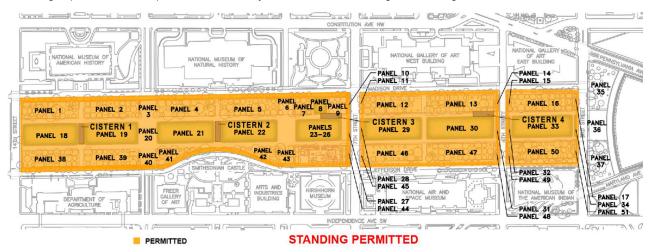
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² See section 4.2 for information regarding temporary turf cover.



1.3.4 Locations for Pedestrian Standing Areas

Standing is permitted on all panels and walkways, as illustrated in orange in the diagram below.





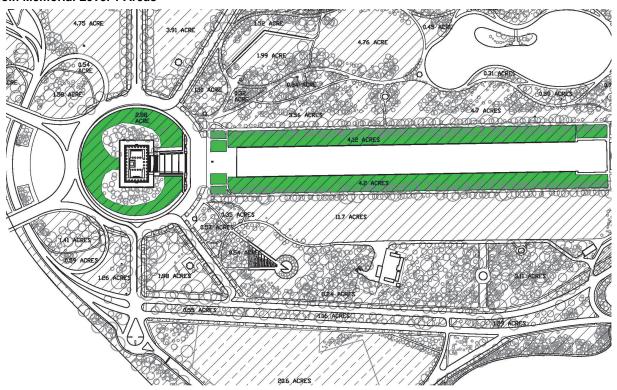
1.3.5 Level 1 and Level 2 Turf Areas

Level 2 areas are all areas not labeled as Level 1 in the maps below. Level 2 and Level 1 have the same rules except:

- Vehicles
 - o Limited approved vehicles driving on approved decking is allowed.
 - Tractor trailers not allowed except when delivering and removing mobile stages.
 - o Limited approved turf vehicles with turf tires are allowed to drive on turf.
- Chairs and tables are allowed to be set up directly on the turf.

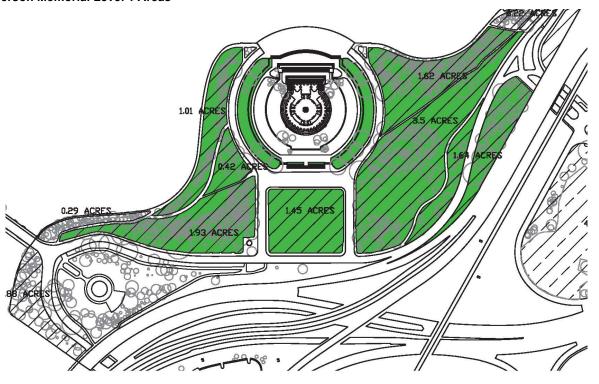


1.3.6 Lincoln Memorial Level 1 Areas



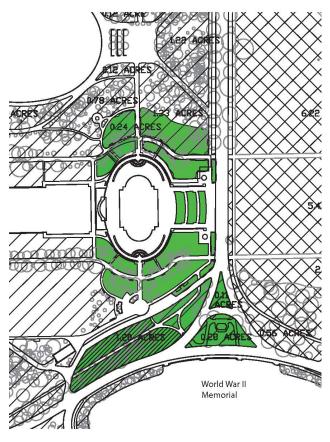


1.3.7 Jefferson Memorial Level 1 Areas





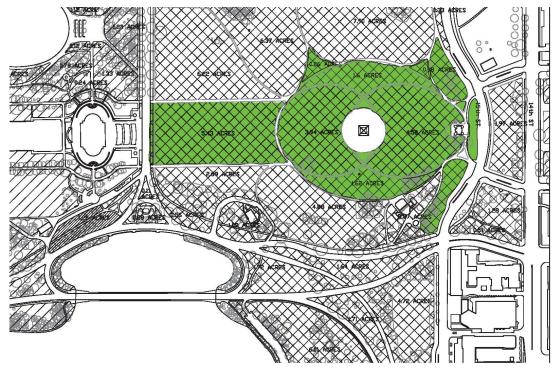
1.3.8 World War II Memorial Level 1 Areas



Center Panels of WWII may be used for chair set up without turf protection.



1.3.9 Washington Monument Level 1 Areas





1.4 Key Team Players

The National Mall is in acutely high demand; its management requires diverse technical abilities and skills. Depending upon what is envisioned by an event producer, the mix of NPS staff necessary will vary by event. It is expected that the cost to support the necessary team shall be borne by the Permittee.

Many of the key team players identified in the SEPG are the same as those identified in this document; however, specific staff, with special responsibilities and appropriate technical training, is involved with National Mall and Memorial Parks (NAMA) events held on turf areas. This includes the following roles:

- NAMA Event Coordinator
- · NAMA Permits Management Division Chief
- NPS Permits Management Specialist
- NAMA Turf Manager
- NAMA Compliance Monitor

The special duties of these positions as related to events on the National Mall are outlined below:

1.4.1 NAMA Event Coordinator

The NAMA Event Coordinator is the person responsible for coordinating and scheduling NPS-sponsored national celebrations, special events or activities. Events related to the Mall's purpose and significance (see section 1.1) have priority prescheduling on the permits management calendar or database. This staff position resides in the Division of Interpretation and Education.

1.4.2 NAMA Permits Management Division Chief

The NAMA permits management staff provides services not only to NAMA but also other parks within the National Capital Region (NCR). The NAMA Permits Management Division Chief assigns and manages staff to work with Permittees; to schedule, monitor, track and report on a wide variety of permitted activities; and to recover related costs.

1.4.3 NPS Permits Management Specialist

The NPS Permit Specialist serves as the primary point of contact for the Applicant and Permittee, and coordinates with other divisions and other park staff, such as the Turf Manager.

The NPS Permit Specialist shall be responsible for working with the Permittee to resolve all issues related to the event, particularly those reported by Event Monitors.

1.4.4 Event Monitors

Event Monitors are responsible for monitoring of the event including set up and tear down, ensuring the Permittee follows the guidelines set forth by NPS and administering the permit. Event Monitors report to the NPS Permits Management Specialist and are responsible for being onsite during the duration of the event for monitoring purposes.



If monitors find issue with the Permittee, they will address the issue immediately with the persons involved and report the incident to the NPS Permits Management Specialist.

All reasonable instructions given by Event Monitors must be obeyed promptly. Failure to comply with all the terms and conditions of the public gathering permit may constitute grounds for revocation of the permit and immediate termination of the event, and/or citation against the violator(s).

1.4.5 NAMA Turf Manager

The Turf Manager is responsible for the health and overall maintenance of the turf, soil and irrigation system. The Turf Manager generally monitors and tracks the condition of the turf to maintain a healthy turf and provides a record of conditions linked to permitted or other uses, weather conditions, or other factors. The Turf Manager and/or team participate in pre-event planning for events with expected attendance of over 1,000 or as determined in conjunction with the Permit Specialist as well as the pre- and post-event walk through assessments to evaluate and record the condition and health of the turf and to verify the functionality of the irrigation or other systems¹. The Turf Manager leads the Grounds Maintenance team assigned to the Mall.

The Turf Manager will determine if additional measures beyond those identified in the permit are necessary due to changing circumstances.

The Turf Manager and team act as a resource in the development of cost recovery requirements and also serve as a resource to the NPS Permit Specialist during the planning, implementation, and take-down of event.

In addition to the operations procedures outlined within this document, the Turf Manager has developed a turf wear index². This charting system assists the Turf Manager by enabling better visualization and tracking of the amount of activity occurring on the turf. Because some activities have greater impacts on turf than others, assigning numerical value to different uses will help the Turf Manager assess potential damage and prescribe an appropriate level of maintenance.

In addition to variety of use, environmental conditions are also considered when using a turf wear index. For instance, if an event takes place during or after a rain storm the negative impact on the turf is increased. Use of this tool allows the Turf Manager to accurately calculate turf wear based on activity, duration, and environmental conditions, and prescribe maintenance according to these factors.

1.4.6 NAMA Compliance M(s)

A variety of compliance specialists may be required depending on the nature of the event. These could include code specialists, NEPA compliance, public health and safety, law enforcement, transportation, and could include a multi-agency or incident

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¹ Additional pre-planning activities may be required at the discretion of the Turf Manager.

² An example Turf Wear Index can be found in the appendix (*Using a Turf Wear Index*, adapted from work by David Schlotthauer, Turf Expert, Brigham Young University).



command approach. As defined in permit conditions, the Permit Specialist may serve this ${\sf role}^1$.

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¹ At the discretion of the permit specialist, additional input may be required. This will be determined on an event by event basis.



2 Revised Permit Conditions

2.1 Timeframes for Pre-event Preparation and Post-event Turf Restoration

The following table includes recommended scheduled timeframes for pre-event preparation and post-event restoration¹ for events held on the newly renovated high-performance turf panels. As activities are permitted, these time periods should be scheduled before and after the permitted event. Scheduled maintenance and restoration timeframes should be posted on the permit system for all to see.

This chart documents recommended timeframes only. The Turf Manager may recommend alternate durations based upon event conditions and/or turf conditions.

The following notes apply to all timeframes and all event parameters:

Pre-event preparation:

- Where feasible, it is recommended that the turf be mowed in two directions on the day
 of the event
- Seeding in advance will allow the seed to be worked in by foot traffic or pre germinated by protective decking allow for new seed to be in place to help with recovery.
- · Fungicide application prior to decking installation.

Post-event recovery:

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- Following events where turf covers are used, the panel must be closed for 48-hours
 prior to interaction with the grass by the Turf Management team. See section 4.2 of
 this chapter for details on turf covering.
- Depending upon level of damage caused by event, resodding may be required.
- Sod knitting will take a minimum of three weeks, and may take up to 60 days
 depending on time of year and sod thickness. During first three (3) weeks after
 installation, usage shall be extremely limited in order to provide the roots an
 opportunity to firmly knit with soil and insures that the turf will remain smooth.

¹ Extraordinary circumstances, such as a hurricane or larger than expected crowds, may require additional time affecting subsequent pre-events and next events. Pre-event preparation and post-event recovery time may vary based upon the size and duration of the event, the types of materials used, weather conditions, and the general conditions of the turf, among other factors. The timeframes recommended in this table are based upon best practices. The Turf Manager may make alternate recommendations based upon event parameters and turf conditions.



Table 1: Landscape Deposit

Event Parameters

Minor Event: less than 25 attendees

Small Event: 26 to 999 attendees

Medium Event: 1,000 to 4,999 attendees

Large Event: 5K to 50K attendees

Very Large Event: 50k to 249K

Extreme Event: 250K+ attendees

	Minor Event	Small Event	Medium Event	Large Event	Very Large Event	
	less than 25	26 to 999	1,000 to 4,999	5K to 50K	50k to 249K	Extreme Event
Per acre amounts	attendees	attendees	attendees	attendees	attendees	250K+ attendees
Low Risk	\$	\$ 500.00	\$ 1,000.00	\$ 5,000.00	\$ 10,000.00	\$ 20,000.00
Medium Risk	\$ 500.00	\$ 2,500.00	\$ 5,000.00	\$ 10,000.00	\$ 20,000.00	\$ 35,000.00
High Risk	\$ 1,000.00	\$ 5,000.00	\$ 10,000.00	\$ 25,000.00	\$ 40,000.00	\$ 72,000.00



2.2 Level 1 Turf Areas Use Limits for Temporary Facilities

The following table includes use limits for temporary facilities on the Level 1 turf areas.

Table 2: Level 1 Turf Area Use Limits and Time Restrictions for Temporary Facilities

Note: Set up and take down crews may work up to 24 hours a day if needed to meet seasonally adjusted timeframes. All structures on turf require protective decking.

	SPRING March 15 – May 14	SUMMER May 15 – Sept 14	FALL Sept 15 – Nov 14	WINTER Nov 15 – March 14
 Vehicles of any kind (delivery, cranes, forklifts, golf carts, trailers, exhibit trailers, etc.) 	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
 Temporary facilities that can be hand carried onto panels from hardscapes Tents and facilities with stakes no longer than 36"1 Facilities such as stages, exhibits, displays, and media towers² Seating, pedestrian surfacing³, bicycle rack, cardboard recycling or trash containers⁴ 	5 days inclusive of set up and take down	3 days inclusive of set up and take down	5 days inclusive of set up and take down	10 days inclusive of set up and take down

¹ No staking within the designated no-staking zone to protect irrigation. The irrigation system shall be tested before and after event to ensure functionality. Stakes longer than 36" are always prohibited because they could damage drain lines, which cannot be tested.

² Weight cannot exceed 3,000 pounds unless materials are used to distribute the weight; in this event, the pressure to the turf cannot exceed 10 pounds per

square inch.

³ Required on turf areas where full capacity is expected.

⁴ Trash containers/bags must be hand carried to walkways/streets and held in designated areas for pick up as per permit conditions.



	SPRING March 15 – May 14	SUMMER May 15 – Sept 14	FALL Sept 15 – Nov 14	WINTER Nov 15 – March 14
Back of house, trailers, bone yards, generators, portable toilets, etc.	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
Vehicle mounted equipment such as signs, stages, LED screens, media towers and light towers	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
Sporting Events – green flags designate areas open for play; red flags and ropes designate areas rotating into short rest periods and not available for use ¹	Per flag system	Per flag system	Per flag system	Per flag system

¹ See section 3.3 on page 32 for detailed description of the Public-Awareness Closure Program.



2.3 Allowable Temporary Facilities on Other Mall Areas

The following table includes allowable temporary facilities on the Mall (areas other than level 1 turf areas).

Table 3: Allowable Temporary Facilities on Other Mall Areas

	Walkways and Non-turf Areas	Madison and Jefferson	Tree and Turf Panels	Gravel Tree Verges ¹ (Madison Jefferson)	Turf Verges ²	Welcome Plaza/ Smithsonian Metro	Concession Stand Areas
• Tents	Yes – but no staking	Yes – but no staking	No	No	No	Yes – but no staking	No
Stages	Yes	Yes	No	Yes	Yes	No	No
Other temporary structures ³	Per conditions	Per conditions	No	No	Per conditions	Per conditions	Per conditions
Back of house, trailers, bone yards, generators, etc.	Yes	Yes, but no boneyards	No	No	No	No	No
Vehicles (golf carts) as per permit conditions ⁴	Yes	Yes	No	No	No	Per conditions	No
Cranes and delivery vehicles ⁵	Yes	Yes	No	No	No	No	No

¹ A tree verge on Madison and Jefferson is a circular planting zone at the back of a curb, adjacent to a roadway.

² A turf verge is a narrow turf grass planting zone at the back of a curb, adjacent to a roadway. Efforts should be made to span the verge when

possible when structures are used.

Temporary structures beyond tents, stages, and fencing might include elements such as lighting towers, audio towers, AV towers, displays, platforms, and portable restroom facilities, among others.

Vehicle parking areas or corrals shall be identified in plans related to permit conditions.

⁵ Cranes and delivery vehicles must obey designated routes in permit conditions; cranes and delivery vehicles must remain five feet (5') away from granite curbs and turf; curbs and turf must be protected at all times.



	Walkways and Non-turf Areas	Madison and Jefferson	Tree and Turf Panels	Gravel Tree Verges ¹ (Madison Jefferson)	Turf Verges ²	Welcome Plaza/ Smithsonian Metro	Concession Stand Areas
Vehicle mounted signs, stages, LED screens, media towers, light towers	Yes	Yes	No	No	No	Yes	No
Portable toilets/toilet trucks ¹	Designated areas only	Designated areas only	No	Designated areas only	No	No	No
Dumpsters	Per conditions	Yes	No	No	No	No	No
Barriers/bike racks ²	Yes	Yes	Yes	Yes	Yes	Per conditions	No
NPS fencing that is staked ³	No	No	Yes	Yes	Yes	No	No
Security Checkpoints	Yes	Yes	No	No	No	No	No

Portable restroom facilities are not permitted on the turf or tree panels and must be located in hardscape areas.

Event barriers shall not be secured using stakes.

NPS staking will follow guidelines as outlined for Permittees and be installed under NPS oversight.



2.4 Closure and Cancellation for Events on the National Mall

The following table includes information related to closure and cancellation policy for the National Mall. Closures shall be enacted for health and safety, weather, and soil condition¹ reasons. It shall be the responsibility of the Turf Manager to determine the level of saturation suitable for usage; this will vary based upon factors such as the season and recent/upcoming weather events.

Table 4: Closure and Cancellation for the National Mall

	Soil Moisture Level/Test	Public/Permit Holder Informed ² (per 36 CFR 1.5, 1.6, 1.7, 1.10)
GENERAL INFORMATION: CLOSUF	RE AND CANCELLATION	
Mandatory cancellation		 For emergency, public health or safety (36 CFR 1.5)³ In conjunction with USPP Mass notification procedures in place
Cancelling permitted athletics and pick- up ball games NPS shall establish a flag system for the Mall to rotate panel usage and notify players when areas are too wet for use ⁴ Flags will incorporate symbols per 36 CFR 1.10	No events shall be held in the event that there is visible puddling on the Mall. In the event of recent rain that has not resulted in puddling, the Turf Manager should use a soil probe to determine the moisture of the soil. ⁵	 Permitted athletics are prohibited from playing on wet ground (36 CFR79.6 (b)(2) On-site temporary signs placed by Turf Manager On-site NPS staff NPS will establish a public information campaign no play in standing water or when soil moisture is high; flag system described

¹ Soil conditions shall be evaluated to ensure prevention of damage to the turf; this is particularly important in the event of extremely moist or wet soil, which is subject to greater damage.

² USPP, in conjunction with NPS, will be responsible for citing permit holders causing damage or not adhering to permit rules.

³ 36 CFR 2.32(a)(2) This regulation allows lawful orders to be issued "to maintain order and control public access and movement during…law enforcement actions, and emergency operations that involve a threat to public safety or park resources…where the control of public movement and activities is necessary to maintain order and public safety.

⁴ See chapter 2 section 3.10 for detailed description of the Public-Awareness Closure Program.

⁵ The Turf Manager may determine that impending weather conditions will result in wet conditions within the same day and may cancel events to prevent damage. Soil moisture readings greater than 30% indicate that damage will occur.



	Soil Moisture Level/Test	Public/Permit Holder Informed ² (per 36 CFR 1.5, 1.6, 1.7, 1.10)
PERMIT STEPS AND CLOSURE AND CA	ANCELLATION INFORMATION FOR A	APPLICANT AND PERMITTEE
Application contains notification of cancellation policy		Review weather projections and seasonal patterns Rain dates pre-determined during rainy seasons Review closure and cancellation policy; there is no guarantee of rescheduling; there is no reimbursement
Operations inventory and event schedule 14 days before event		Weather and soil moisture warning; Back-up plan for cancellation, rain dates, relocation to Tidal Basin Parking Lot, or rescheduling availability
Pre-event meeting 5 days before		Weather and soil moisture warning
Pre-event walk through 3 days before event	Test soil moisture	Initiate back up plan
Set up of temporary facilities	Soil moisture is high	Delay of set up; cancellation required within 2-3 days of event
Event days (public activity days)	On site monitoring	Rain delays
Take down of temporary facilities		Postpone tear down until soil moisture levels are at an appropriate level. 1

¹ The amount of time necessary for soil moisture levels to reduce to an appropriate level will vary based upon weather conditions. The Turf Manager and team shall monitor conditions and inform Permittee when soil moisture levels have reached an acceptable level for take down of temporary facilities.

² USPP, in conjunction with NPS, will be responsible for citing permit holders causing damage or not adhering to permit rules.



3 Permitting Process: Special Steps for Events on the National Mall

3.1 Event Checklist and Procedures to Protect Turf, Soil and Irrigation

The following table can be used to ensure Permittees meet all the deadlines outlined in the manual and meet the conditions of the permit. Please note that the timeline may vary based upon the scale of the event. The NPS Permit Specialist will work with the Permittee to determine exact dates/schedule for the permitted event. The table can also be used to ensure Permittees, the Permits Management Office, and the Turf Manager and teams understand responsibilities associated with procedures established to help protect the Mall turf, soil, and irrigation system.

Table 5: Event Checklist and Procedures to Protect Mall Turf, Soil and Irrigation

Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
	PRE-EVENT PREPA	RATION		
Planning	Permit system must highlight the scale of event and expected attendance	Inform Permit Office about scale of event and expected attendance	Inform Turf Manager of events likely to affect turf condition	Identify concerns and work with permits office Plan advance strategy to maintain turf in good to excellent condition
Turf Maintenance				Document soil and turf conditions on a regular basis Seeding Fungicide Application Fertilizer Application Follow guidelines from Chapter 2



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Irrigation/watering				Examine irrigation system heads Test system Program system so as not to spray the event Determine whether special irrigation such as hand watering or syringing will be necessary during the event and to what level
	PRE-EVENT WALK 1	THROUGH PRIOR TO S	START OF SETUP	
	(48 hours prior to stan	t of setup)		
Participants	Permit system identifies which stakeholders must attend, including Permittee	Permittee must attend	Permit specialist must attend	Representative from Mall Turf Management Team must attend
Condition assessment	Permit system must recommend photo documentation for the benefit of all parties Permit system must require Permittee to sign-off on condition assessment document	Photo documentation is recommended for the benefit of all parties Signoff on condition assessment document.	Confirm grounds condition for patches, dead grass, and cracked cement noted as "existing" pre-event Gign-off on condition assessment document Prepare report. Archive report with permit	Photo document to support long term tracking of turf and soil conditions Document findings of walk-through Sign-off on condition assessment document

Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Logistics: Delivery schedule Fencing Ground cover Cables	Permit system must require Permittee to provide information about delivery and load in	Provide information about delivery and load in	Review posted delivery schedule Ensure permit conditions are followed	Review posted logistics and transmit concerns to Permits office
	EVENT			
Soil and turf condition		Follow permit conditions	Ensure permit conditions are followed	Daily turf and soil monitoring check conditions and transmit concerns to Permit office
Generators		Follow permit conditions	Ensure permit conditions are followed Ensure all generators enclosed by fence and placed in fire retardant containment unit	Check conditions daily and transmit concerns to Permit office
Structures		Follow permit conditions	Ensure permit conditions are followed If staked, ensure that stakes are less than 36"	Check conditions daily and transmit concerns to Permit office

Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
In case of significant rainfall or other extreme weather conditions		Work with Permits Management Office and Superintendent in the event of extreme weather conditions	Coordinate cancellations, delays, or other requirements with the superintendent and Permittee	Examine turf conditions including soil temperature and saturation; make recommendation to superintendent whether event can continue without damage to the turf and if additional steps are required (such as additional pedestrian flooring, etc.)
Daily inspections: monitoring and recording conditions, weather, etc.			Events monitors to monitor event for compliance	Turf Manager and/or staff to monitor condition of turfgrass Archive information in database



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff	
	POST-EVENT WALK THROUGH (1 day after event take down is complete)				
Post event walk through with the Permittee/condition assessment	Permit system must require Permittee to participate in walk through Permit system must require Permittee to sign off concurrence document related to condition assessment POST-EVENT RECO	Participates in walk through Signs off on condition assessment document VERY PERIOD	Participate in walk through Photo documentation of conditions Note inconsistencies with permit conditions Sign off concurrence document related to condition assessment	Participate in walk through Examine turf for excessive wear or damage caused by event Photo documentation of conditions Sign off concurrence document related to condition assessment	
Turf recovery	Permit system documents if level of damage resulting in the need for cost recovery is caused to turf, and notifies Permittee	Responds to cost recovery request	Assign damage costs to Permittee if applicable Assign costs of turf management team	48 hours after flooring removal, mow turfgrass Three days after flooring removal, staff will commence recovery maintenance practices	



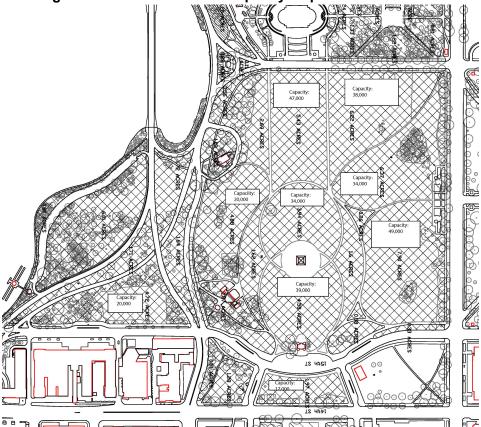
Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Aeration/seeding	Permit system documents if additional aeration is required, and notifies Permittee of cost recovery	Responds to cost recovery request	Determine whether Permittee is responsible for bearing the cost of additional aeration	Determine whether additional aeration or seeding is necessary based on turf and soil conditions following event.
Irrigation/watering	Permit system documents if damage is caused to the irrigation system, and notifies Permittee to pay cost of alternate/interim irrigation	Responds to cost recovery request	Assign damage costs to Permittee if applicable	Examine heads Test system Determine if event has caused damage to system Determine if additional watering is required to ensure health of turf
Soil condition	Permit system documents if level of damage resulting in the need for cost recovery is caused to soil, and notifies Permittee	Responds to cost recovery request	Determine whether Permittee is responsible for bearing the cost of additional fertilization	Examine soil for excessive damage caused during event Determine whether additional fertilization is required
Fencing	Permit system documents if level of damage resulting in the need for cost recovery is caused to soil, and notifies Permittee	Responds to cost recovery request	Assign damage costs to Permittee if applicable	Use fencing as necessary to protect recovering turf



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Record conditions	Permit system saves archive copy of conditions	Records conditions	Record conditions and add observations to set of best practices	Record conditions and add observations to set of best practices Archive conditions
Prepare report	Permit system saves archive copy of report with permit	Archive report	Prepare letter on event- related issues; combine with turf report from Turf Manager	Develop report of findings related to turf

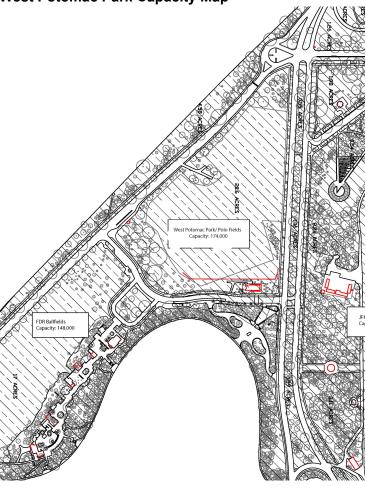


3.2 Washington Monument Grounds Capacity Map



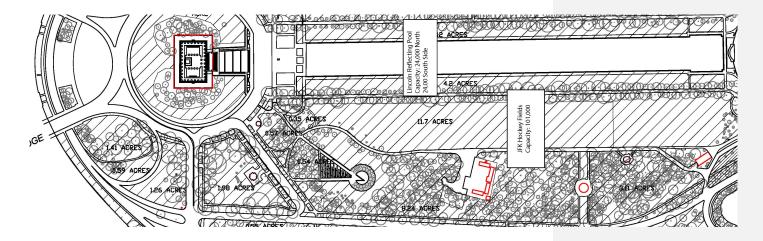


3.3 West Potomac Park Capacity Map





3.4 Lincoln Memorial Area Capacity Map





3.5 Mall Area Capacity

Refer to section 1.4 for venue opportunity maps indicating areas in which Permittees may hold events as well as type of use allowed for each area.

Table 7: Panel Use Limitations to Protect Mall Turf, Trees, Soil, and Irrigation

Panel	Description	Area (SF)	Maximum Estimated Capacity – Seated	Maximum Estimated Capacity – Standing	Temporary Structures ¹				
Sugges	Suggested capacity calculation metric: 15 SF per person seated, with tables and chairs; 5 SF per person standing²								
1	Tree	60,988	Not permitted	12,200	Not permitted				
2	Tree	63,834	Not permitted	12,770	Not permitted				
3	Hardscape	19,933	1,330	3,990	Permitted				
4	Tree	64,865	Not permitted	12,970	Not permitted				
5	Tree	66,536	Not permitted	13,310	Not permitted				
6	Tree	19,990	Not permitted	4,000	Not permitted				
7	Tree	18,970	Not permitted	3,790	Not permitted				
8	Hardscape	19,093	1,270	3,820	Permitted				
9	Tree	19,895	Not permitted	3,980	Not permitted				
10	Tree	3,122	Not permitted	620	Not permitted				
11	Tree	2,034	Not permitted	410	Not permitted				
12	Tree	66,483	Not permitted	3,300	Not permitted				
13	Tree	77,935	Not permitted	15,590	Not permitted				
14	Tree	2,222	Not permitted	440	Not permitted				
15	Tree	2,268	Not permitted	450	Not permitted				
16	Tree	69,520	Not permitted	13,900	Not permitted				
17	Tree	2,722	Not permitted	540	Not permitted				

¹ Not permitted on tree panels; strongly discouraged on turf panels but allowed with approved protection. Refer to Section 2.2, Mall Center Turf Panels Use Limits for Temporary Facilities and Section 2.3, Allowable Temporary Facilities on the Mall (Outside Center Turf Panels), Capacity calculation metrics assume no structures on the panel; calculations may be adjusted in conjunction with the NPS Event Coordinator based on the site plan. All egress and fencing must be designed to be code compliant.

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² Capacity calculation metrics assume no structures on the panel; calculations may be adjusted in conjunction with the NPS Event Coordinator based on the site plan. All egress and fencing must be designed to be code compliant.



Panel	Description	Area (SF)	Maximum Estimated Capacity – Seated	Maximum Estimated Capacity – Standing	Temporary Structures ¹
18	Turf	84,780	5,650	16,960	Use Limits
19	Turf	83,780	5,585	16,760	Use Limits
20	Hardscape	18,834	1,260	3,770	Permitted
21	Turf	88,985	5,930	17,800	Use Limits
22	Turf	87,680	5,845	17,540	Use Limits
23-26	Turf	76,370	5,090	15,275	Use Limits
27	Turf	3,288	220	660	Use Limits
28	Turf	2,712	180	540	Use Limits
29	Turf	87,327	5,820	17,470	Use Limits
30	Turf	101,566	6,770	20,310	Use Limits
31	Turf	2,897	190	580	Use Limits
32	Turf	2,787	190	560	Use Limits
33	Turf	91,623	6,110	18,325	Use Limits
34	Turf	3,213	215	640	Use Limits
35	NA	NA	NA	NA	NA
36 ¹	NA	NA	NA	NA	NA
37 ¹	NA	NA	NA	NA	NA
38	Tree	64,860	Not permitted	12,970	Not permitted
39	Tree	60,222	Not permitted	12,040	Not permitted
40	Hardscape	19,910	1,330	3,980	Permitted
41	Tree	25,350	Not permitted	5,070	Not permitted
42	Tree	4,755	Not permitted	950	Not permitted
43	Tree	19,450	Not permitted	3,890	Not permitted
44	Tree	3,081	Not permitted	620	Not permitted
45	Tree	1,990	Not permitted	400	Not permitted
46	Tree	66,394	Not permitted	13,280	Not permitted

¹ Panels 35, 36, and 37 are no longer under the jurisdiction of the NPS; jurisdiction of this land was transferred to the Architect of the Capitol on December 23, 2011.

¹ Not permitted on tree panels; strongly discouraged on turf panels but allowed with approved protection. Refer to Section 2.2, Mall Center Turf Panels Use Limits for Temporary Facilities and Section 2.3, Allowable Temporary Facilities on the Mall (Outside Center Turf Panels)



TURF MANAGEMENT OPERATIONS AND MAINTENANCE GUIDE FOR THE NATIONAL MALL

47	Tree	74,328	Not permitted	14,870	Not permitted
48	Tree	1,916	Not permitted	380	Not permitted
49	Tree	2,106	Not permitted	420	Not permitted
50	Tree	70,030	Not permitted	14,010	Not permitted
51	Tree	2,160	Not permitted	430	Not permitted
	North and South running hardscape – walkways ¹	TBD²	TBD	TBD	Permitted
	East and west running hardscape walkways ¹	TBD ²	TBD	TBD	Permitted

¹ No staking is permitted on walkways. Emergency access requires a fifteen foot (15') clear span.
² Design of walkways is incomplete at the time of this publication; at completion of design, the area allotted to Permittees will be calculated by multiplying the entire width of the sidewalk used by the length of the sidewalk contiguous with the panels included in the permit. Refer to Section 1.4 for proposed areas.



The following map illustrates the maximum width and length for temporary structures placed in non-turf areas. Each designation allows for the maximum standard tent size, space for tent supports on every side, and a required 15 foot clear area for pedestrians and emergency vehicles.





15' Pedestrian walk and Emergency access route + 10' Area for Tent Support



3.3 Public-Awareness Closure Program

For the success of turf maintenance, it is critical for the public to be not only aware but actively engaged in the protection and preservation of the resource. Development of a system to educate and engage the public on when to use or avoid turf areas is recommended. Such a system will demonstrate to the general public the care and dedication of NPS to maintaining and preserving the Mall as a national treasure.

NPS believes using positive messaging to convey to the public why an area is closed or a use restricted due to resource rehabilitation efforts or regular maintenance procedures helps build support for maintenance goals. This includes signage on and around the Mall, as well as online. Outreach may be done with local



neighbors such as the Capitol Complex, the Smithsonian, the Capitol Hill neighborhood, and many of the Federal Agencies inhabiting the facilities surrounding the Mall.

A red flag system will be used to help communicate the usability of each area or sections thereof on the National Mall, similar to that used on the Central Park lawn spaces. Red flags will be located at the four corners of a panel or section thereof along the two eastwest walkways, thus signifying the closure of the adjacent panel. These shall be posted when panels are closed for maintenance or due to adverse weather conditions when the turf is vulnerable to damage, or during recovery periods after a large event.

NPS will provide an education system to inform the public of the flag system's intent and procedures. Flags will be accompanied by informational signage addressing the process and purpose of the flags, informing visitors of the program that is in place to protect the Mall. The information provided should be identifiable, consistent, understandable, and current. Messaging of the program should be integrated with repair and recovery signage.

Panels marked with red flags, signals the closure for issues related to scheduled and unforeseen maintenance including:

- · Newly seeded or sodded panels to allow for the turf to grow in
- · Pest mitigation, mowing, fertilizing, aeration, topdressing operations
- · Heavily trafficked panels requiring a rehabilitation and recovery period

Level 1 areas may be temporarily closed due to permitted events. Some events require set up and breakdown periods; the permit may call for closure of the areas to the public during these times to promote public safety. Permitted events may have limited attendance; thereby requiring closure of the panel to the public during the event. Closure of panels will be determined by the NPS permit staff in conjunction with the Turf Manager.

Adverse weather conditions will also force the temporary closure of panels for casual use, including those that are:

· Heavily saturated from large rain events



TURF MANAGEMENT OPERATIONS AND MAINTENANCE GUIDE FOR THE NATIONAL MALL

· Frosts - high traffic on frosted grass will greatly damage the turf

The NPS Turf Manager is responsible for monitoring the conditions of the turf panels and determining whether the turf areas are acceptable for use; if not, then the Turf Manager will implement the red flag closure system.

Once the red flags are clearly displayed to alert the public that an area is closed, the U.S. Park Police will enforce the flag system and direct users to open panels. With a Record of Determination having earlier been done pursuant to 36 CFR 1.5, the Park Police have ample authority to cite users who disobey the direction provided by the flags.



4 Turf Protection Planning Guide – A Primer for Applicants

Turfgrass is a living, breathing, organism which requires six basic elements for survival: air, water, food/nutrients, sunshine/light, proper temperature and rest. When any of these elements are not provided or removed from the equation, the decline and possible death of the turfgrass is imminent.

Events can be very damaging to the health of turf as they often result in limiting the turfgrass from access air, water, nutrients and light. Damage to the turf areas primarily occur due to wear (tearing and abrasion of the above ground parts of the plant) and soil compaction, (reducing the pore space in the soil which limits air and water availability) ultimately damaging turf.

Turf Area Protective Decking Guidelines

For the protection of the park's resources, the National Park Service must institute management practices to limit damage to the turf.

Temporary covering of turf substantially reduces wear injury by protecting the plant from tearing and abrasion due to traffic. Temporary covering helps reduce soil compaction although it is not eliminated. Set up for events are encouraged to be configured to avoid concentrating foot traffic and the need for protective decking.

Acceptable Turf Decking Systems All Year: There are conditions that warrant a solid back such as some soft soil conditions, temporary cover for equipment access, or hot weather. In this case MatraxHD, ArmorDeck 3, RGT Panel Flat back, or equal is acceptable; but plywood is not ever an acceptable material.

Acceptable Turf Decking Systems September 15 to May 15: Products such as Terraplas, ArmorDeck 1, RGT Panel Pedestrian.

These are ADA-compliant, interlocking mats that are translucent to allow UV light to pass through or provide light to the grass below. These types of materials are considered leading turf protection systems for stadia and other venues such as public parks, racecourses, and private events and are used for walkways, exhibitions, show stands and hospitality areas. An approved equal to these would be translucent in color, flat backed, and would lock together with adjoining pieces. Time restrictions are the same as with cavity back below.



April 1, 2015



Landscape or other fabrics are not permitted underneath due to their negative affect on the turf. These effects include heat buildup, lack of gas exchange, and the restriction of light.

Acceptable Turf Decking Systems September 15 to May 15: Products such as Terraplas, ArmorDeck 1, RGT Panel Pedestrian. These types of materials are considered leading turf protection systems for stadia and other venues such as public parks, racecourses, and private events and are used for walkways, exhibitions, show stands and hospitality areas. These products are quick and easy to fit; allows passage of air, light, and water; perform to high public safety standards; and protect turf from large crowds and structures.

While temporary turf decking helps prevent some damage if used for a short period of time, covering the turfgrass still results in additional stressors such as reduced airflow, restricted moisture infiltration, heat buildup, and reduced light, so seasonally adjusted turf cover time limits are needed.

Pedestrian flooring shall follow the guidelines below:

- Comprised of single-sided or double sided high density translucent polypropylene. Vehicles are not allowed on the cavity back type of protective decking (vehicles are only allowed on solid back decking in level 2 turf areas).
- Be lightweight—covering must be carried and set in place or removed <u>without</u> vehicular assistance (Level 2 areas allow vehicles on decking). Hand carts will be allowed on the turf decking.
- · Not result in turf damage during removal.
- The cavity back (if specified) must have appropriate clearance above crown of grass (not compress the turf, approximately 1.75" to 2.25"); this depends on the time of year and ground conditions.
- Cavity back must have holes for air, light, and water to permeate the product.
 - No fabric or other obstructions to turf decking covering holes or blocking light will be allowed below the protective decking.
- Carpet may be allowed on top of the decking with seasonally defined time restrictions (see inserted box above)
- Installed no more than one (1) day prior to the event. Therefore, installation after five (5) pm and working through the night to minimize turf coverage time is permitted with approval from the Superintendent's office.
 - Permittee will be responsible for paying personnel overtime charges related to the assignment of National Park Service employees and US Park Police for monitoring set-up and take down construction or security

beyond an eight hour shift or on weekends.

 Plywood is not ever an acceptable temporary covering. Plywood blocks nearly all irradiance, thereby shutting down the photosynthetic process within the turfgrass plants. This results in unacceptable decline of turfgrass

health. In addition, it is unable to interlock.





Time Limits for Protective Decking

Total turf coverage time including set up:
November 15 to March 14: 10 days
March 15 to May 14: 5 days
May 15 to September 14: 3 days
September 15 to November 14: 5 days

Time Limits for Blocking Photosynthesis (i.e. tents, stages)

November 15 to March 14: 5 days

March 15 to May 14: 3 days

May 15 to September 14: 2 days

September 15 to November 14: 3 days

Carpets above the decking with seasonally defined time limits.

May 15 to September 14 carpet allowed for 6 hours after 6 pm

September 15 to May 14 carpet allowed for 24 hours.

Deviations require superintendent's approval.

Products proposed must be approved by the NPS Turf Specialist and affirmed through the permitting process (planning, writing) by the Permit Specialist.

Tents or Other Temporary Structures on Turf Areas

Permittee shall provide a certification statement confirming all temporary structures comply with the following requirements: local building/life safety codes, ASCE 7-05,NFPA-101, IBC 2006 and IFC 2006.

Permittee shall provide drawings for all structures (including foundation/anchoring systems) over 500 square feet in area. Drawings are also required where the total combined area of connected individual structures exceeds 500 square feet. Structures shall be considered connected if they are within 5-feet of each other, share a common foundation/anchor, share a common utility, or are connected by any other means. Temporary walkways shall not be considered when evaluating if structures are connected.

All temporary structure drawings must be signed and sealed by a professional engineer licensed in the District of Columbia.

Grounding rods are permitted in areas outside the "No Stake" zones (maps at the end of this chapter). The permittee must hire a private utility locating company to determine if an area is safe for this.

It is strongly encouraged that structures be placed on the park's hardscape areas where they will not impact the turf. However, the NPS may allow, under permit, structures on turf

TURF MANAGEMENT OPERATIONS AND MAINTENANCE GUIDE FOR THE MALL



(structures not permitted on center turf areas at WWII, upper circles at Jefferson. Lincoln, and Washington, and the view shed of the Washington Monument), if the Permittee's use of structure and equipment follows the turf protection measures as detailed below. Without the necessary resource protection measures, structures are not permitted on turf and must be limited to locations on the hardscape surfaces.

If tents or other temporary structures are placed on the turf, they must follow the guidelines below:

- In event areas where there are underground utilities or designated no stake zones, water filled ballast tanks or concrete blocks will be used on the turf with proper protection decking and seasonal time restrictions. This is to help minimize compaction of the turf by the weight of the ballasts. This also allows maximum access of air, sunlight, and water to the turfgrass.
 - Vehicles are not allowed on turf to place ballasts.
 - o Water from tanks may not be dumped on park grounds.
- Any approved staking cannot take place without a National Park Service official present.
 - Permittee to hire a private utility marking company for stakes deeper than 18"
- · All structures shall be hand carried onto turf level 1 turf areas.
- Protective decking (guidelines above) will be installed slightly larger than the footprint of the structure and pedestrian pathways to the tent entrance(s).
- Tent posts will be placed directly on approved decking (above).
- Tent walls will be put on at the last possible moment before the event. This will allow
 for air circulation and light penetration for turf health. Please refer to the preceding
 table for guidance on time requirements for blocking photosynthesis.
- Chairs, other seating, and other temporary structures will be located on protective decking.
- All screws, fasteners, and ties should be policed during the build and retained during the removal. They should be made of a non-aluminum or non-plastic material.
 Cleanup with a magnetic sweeper is required to ensure all fasteners and screws are retrieved.
- Steel, lumber, vinyl, and other construction materials, etc. should not be left on the turfgrass for a prolonged period of time (more than 4 hours).

Temporary Stages on Turf

The park has many locations where stages can be set up on hardscape. However, stages with proper turf protection can be set up in certain turf areas if approved by the NPS in the permit conditions. The stage must be arranged so that as much turf can be protected as possible, this is accomplished by utilizing hardscape areas. Plywood, because of its ability to be modified to the proper size, is allowable for protection of turf from screw jacks or ballasts. Event planners should plan on some turf replacement with thick cut sod where the plywood is used.

- Protective decking will be installed under the stage, except where ballasts exceeding the weight capacity of the protective decking is installed.
- Every effort should be made to locate the stage on hardscape so that the turf can be clear spanned.



- All structures must minimize all points that come in contact with the turf grass, structures on the turf should be on a riser with as few points as possible touching the turf, if not on the protective decking, these points should have Enkamat and plywood pads underneath as outlined:
 - Each screw jack should have a 16"x16"wooden pad (3/4" plywood) and two layers of Enkamat 18"x18".
 - Three day maximum.
- Scheduling of set up should include efforts to hold off stage skirting installation until last possible moment and removed immediately after the event. This will allow for maximum light penetration and airflow.
- Ballasts should be situated on hardscape. If this is not possible, protect turf with four layers of Enkamat and two layers of plywood (3/4"). Cost recovery estimates should include sodding these areas with thick cut sod.
- All cables (power, audio, etc) shall be encased in Yellow Jacket wire troth (or approved equal).
 - Where a wire path crosses a known road or trail, ADA compliant Yellow jacket or approved equal must be used.



- The troth, where it crosses level 1 or 2 turf must be place on approved decking or 2 layers of Enkamat Plus gray.
- In a stage situation, cables should be flown over the steel, tied to stage or structure under the stage, and the mix position and not allowed to touch any grass area.
- Yellow Jacket on turf will need to be moved daily so that no area of turf is under it for more than 24 hours.
- Areas not requiring Yellow Jacket Troth but on the turf, the cable shall be laid on two layers of Enkamat and moved every 24 hours.
- Tear-down of the stage and structures should begin immediately following the load out of show productions. Unless conditions due to weather would cause tear down operations to damage the turf.
- An industrial magnet will be used over the entire area to recover screws, fasteners, etc.
- The turf manager will inspect the area for damage after the event in order to determine the extent of turf that will need to be replaced by sod.

Crate Storage and Bone Yards Prohibited

Crate storage, bone yards, and staging areas may never be located within turf areas; they must be located on hardscape areas or off-site. Bone yards may not be located on NPS roads.

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Approved staging locations for pallets must be designated, and used during set up and take down only. Off-site preparation and construction in bone yards may be needed to support this. On-site staging areas are to be used for no more than two (2) days; staging and storage requiring lengths of greater than two (2) days must occur off-site.

Load In/Load Out Requirements

Load in and sevent set-up may not occur until the pre event walk through is complete. This is in order to establish the pre-event condition of the approved permit area in an effort to be able to assess any damage afterwards. This will include verification that the irrigation system (if present) is operable and to document any damage prior to set up.

With prior approval from the Superintendent's Office, set-up and take down of temporary facilities that involve protective decking on turf, work may occur in shifts twenty four hours per day, which is more than the maximum time allowed for these activities is greater than permitted in the SEPG (Special Events Permit Guide). Condensing loading hours will decrease the amount of time structures and temporary floor coverings are present on the turf, thus decreasing the potential for damage to the turf.

The Permittee will be responsible for paying personnel overtime charges related to the assignment of National Park Service employees and US Park Police for monitoring set-up and take down construction or security beyond an eight hour shift or on weekends.

A post event walk through with the Permit Specialist and the Turf Specialist is required to determine the extent of damage to the turf. The Permittee will be financially responsible for repair of damage to turf, area, and soil structure. Efforts to minimize the effect on the turf will reduce the need for this. The level 1 turf areas will be repaired with sod due to their high profile nature. In addition, repair may include but not limited to aeration, seeding, sodding, leveling, sodding, fertilization, and/or pesticide applications.

Use and Rest Periods

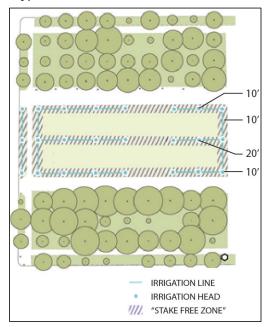
In order to best protect the health of the turfgrass, NPS will carefully consider if and how events may use turf areas. This includes whether or not turf requires a rest period before or after an event. These decisions will be made by the Turf Manager and Permit Specialist upon examination of an ever increasing body of knowledge that will be supplemented by information gained from each permitted activity.

The use of the turfgrass areas will be rotated, closing areas or portions of turf areas periodically for turfgrass renovation/recovery. Rotation is required to prevent all the turf areas from becoming devastated. NPS will accomplish this by scheduling and dispersing events to reduce concentration on a few turf areas; and planning renovation/recovery rotations to allow the turfgrass to regenerate. Repaired/restored areas may require up to 10 weeks to recover. During this time the area will be protected with ropes, posts, and signage.

If possible, when approving site layouts, NPS will work with Permittees to ensure that the layout of structures and circulation varies from recent and previous layouts in the area. This ensures that the same areas are not continuously used, thereby preventing damage such as compaction of soil or the deprivation of natural light reducing the amount of chlorophyll.

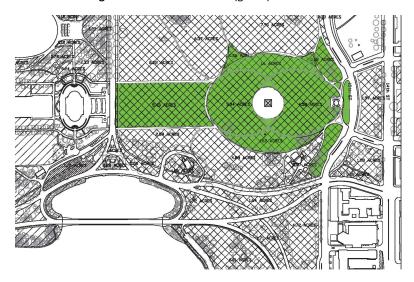


No Stake Zones - Typical Mall Panel

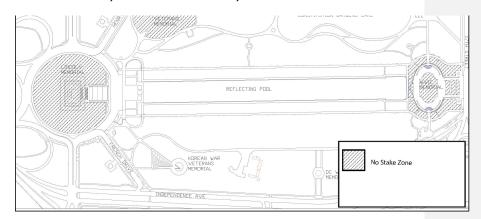




No Stake Zones – Washington Monument Grounds (green)

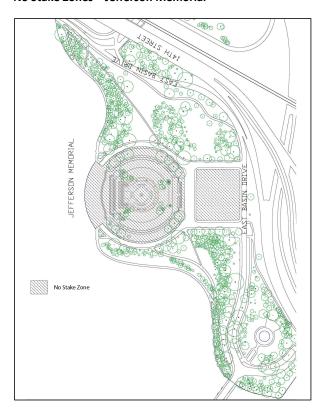


No Stake Zones – Lincoln Memorial, World War II Memorial, and Vietnam Veterans Memorial





No Stake Zones - Jefferson Memorial



5 Appendix

5.1 Code of Federal Regulations

36 CFR 1.5 through 1.10, available online at: $\frac{\text{http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr\&SID=c2f1e94aa72e04fff4a29e36307f154a\&tpl=/ecfrbrowse/Title36/36cfr1_main_02.tpl}$

 $36\ CFR\ 7.96\ -\ National\ Capital\ Region,\ available\ online\ at:\ \underline{http://www.ecfr.gov/cgi-bin/textidx?c=ecfr&SID=c2f1e94aa72e04fff4a29e36307f154a&rgn=div8&view=text&node}\\ =36:1.0.1.1.7.0.1.95$



5.2 Special Events Planning Guide for the National Capital Region

The most recent version of the SEPG for the National Capital Region is available online at: INSERT NEW LINK WHEN AVAILABLE

5.3 Sample Application

Applications can be found online at http://www.nps.gov/nama/planyourvisit/permits.htm

5.4 Resources

5.4.1 Policy References

Refer to the following resources for additional information on policies:

- Special Events Planning Guide for the National Capital Region
- Americans with Disabilities Act: http://www.ada.gov/
- EPA Hazardous Materials Guidelines: http://www.epa.gov/osw/laws-regs/regs-haz.htm
- Concessions Policy Act (Public Law 105-391): http://www.doi.gov/ocl/2003/npsconman.htm
- Public Law 108-108, Title I, § 145: http://www.gpo.gov/fdsys/pkg/PLAW-108publ108.pdf
- NPS Management Policies 8.6.2.2: http://www.nps.gov/applications/npspolicy/index.cfm

5.4.2 Sources

The following sources were consulted in the creation of this Guide.

- Best Management Practices Used at Urban Parks in National and International Locations: A Background Report for the National Mall Plan. NPS (March 2007).
- Draft Elms of the Monumental Core History and Management Plan, NPS Natural Resource Report, NPS/NCR/NRR-2009/001.
- Evaluation of the Effects on Turf of Different Terraplas Pitch Protection Systems, Sports Turf Research Institute (July 2010).
- Event Impact Observation Study, HOK (2011).
- NAMA 151515 Specification Section 329219 part 3.11(2011).
- National Mall Trafficked Turf Systems Report for the National Park Service, Virginia Polytechnic Institute and State University Department of Crop and Soil Environmental Sciences (Fall 2010).
- NPS NCR Requirements 36 CFR 7.96 (g)
- Report on the National Mall Soil Compaction Evaluation (April 4, 2008).
- Requirements for Special Events Held on Parkland, National Park Service (Version 8-6-07-A).
- Resource Conservation Practice; Understanding and Managing Soil Compaction, Iowa State University (2009).
- Soils of the Mall in Washington, DC, 50 Soil Science Society of America Journal No. 3 (May-June 1986).
- Soil Compaction and Its Effects upon Urban Vegetation, Better Trees for Metropolitan Landscapes Symposium Proceedings, USA Forest Service Tech. Rep. NE-22 (1976).

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- Summer 1992 Studies by CUE Confirm Compacted Mall Soils Memo, Center for Urban Ecology (1992).
- The Elms of the National Mall: Studies, Findings and Recommendations.
 Center for Urban Ecology (August 10, 1993).
- Trial to Evaluate Turf Protection Systems, Sports Turf Institute (2010).

5.4.3 Websites

The following websites may be visited for additional information on the agencies and services discussed in this guide.

- National Park Service Permitting Information: http://www.nps.gov/nama/planvisit/permits.htm/
- National Park Service Permitting FAQs: http://www.nps.gov/nama/planyourvisit/permits-faqs.htm/
- National Park Service Public Gathering Application: http://www.nps.gov/nama/planyourvisit/upload/NPS-Form-10-930-2010-special-use-new-phone-numberse.pdf/
- District Department of Transportation (DDOT): http://ddot.dc.gov/
- U.S. Park Police: http://www.nps.gov/uspp/
- Metropolitan Police Department: http://mpdc.dc.gov/
- DC Mayor's Special Events Task Group: http://mpdc.dc.gov/mpdc/cwp/view,a,1241,q,548278.asp
- Metrorail/Metrobus: http://www.wmata.com/
- Circulator: http://www.dccirculator.com/
- District of Columbia Department of Fire & Emergency Medical Services: http://fems.dc.gov/
- Department of Health: http://dchealth.dc.gov



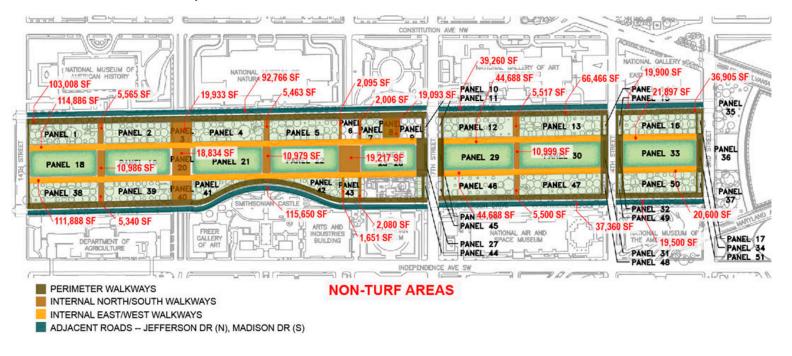
1.3 Mall Site

Located in the heart of Washington DC, the Mall is defined as the area bound on the east by Third Street, on the west by 14th Street, on the north by Madison Drive, and on the south by Jefferson Drive.

The following maps illustrate areas in which Permittees may hold events. Where applicable, use limitations are noted. For additional details on event capacity, refer to section 3.3/Table 7.

1.3.1 Non-Turf Areas for Temporary Structures

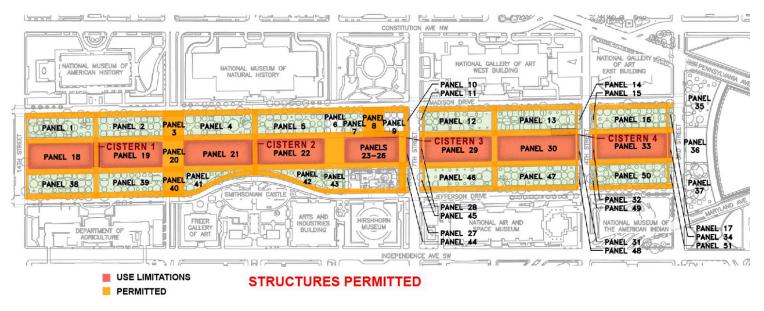
Non-turf areas such as walkways and hardscape panels are the preferred location for events of all types, particularly events using structures. Non-turf areas are highlighted in orange on the diagram below. Total square footage of non-turf areas is approximately 800,000 square feet. This includes four hardscape panels (3, 8, 20, and 40), as well as the north-south and east-west walkways.





1.3.2 Turf Area Locations for Temporary Structures

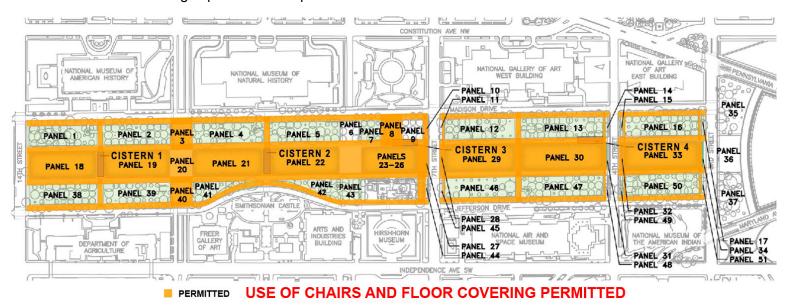
Structures are permitted on all walkways and hardscape. Structures can be permitted on turf panels with limitations listed in Section 3.3. The yellow areas on the diagram below indicate areas where structures are permitted; the red areas indicate areas where structures are permitted but with use limitations to protect the turf. Structures are not allowed in the tree panels.





1.3.3 Locations for Setup of Chairs or Other Seating

Setup of chairs or other seating is permitted on all walkways, hardscape panels, and turf panels (with protective turf covering). The orange areas on the diagram below indicate areas where seating setup is permitted. Appropriate turf cover must be used when seating is placed on turf panels².

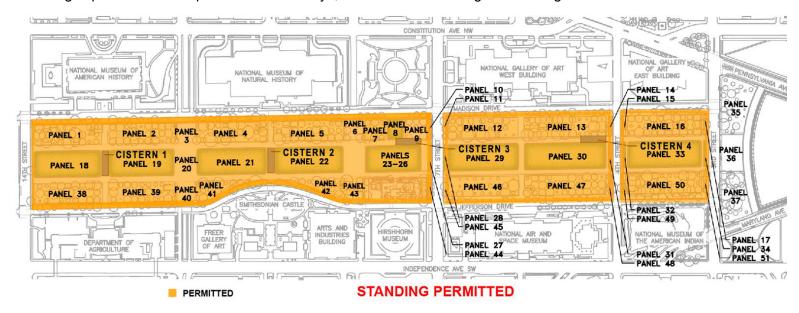


² See section 4.2 for information regarding temporary turf cover.



1.3.4 Locations for Pedestrian Standing Areas

Standing is permitted on all panels and walkways, as illustrated in orange in the diagram below.





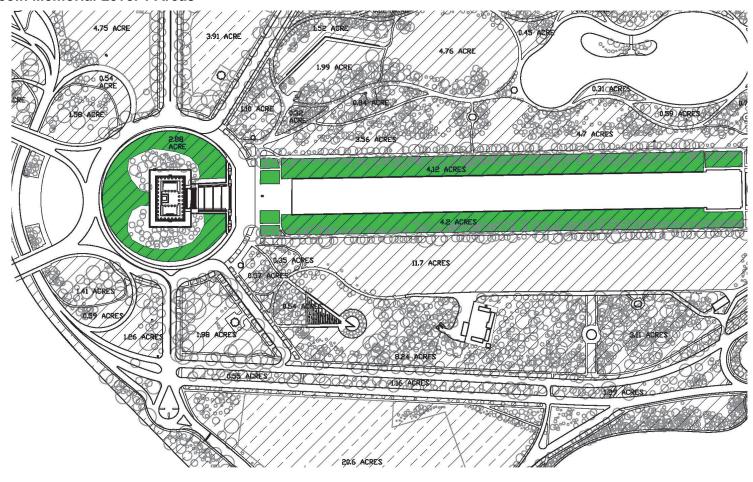
1.3.5 Level 1 and Level 2 Turf Areas

Level 2 areas are all areas not labeled as Level 1 in the maps below. Level 2 and Level 1 have the same rules except:

- Vehicles
 - o Limited approved vehicles driving on approved decking is allowed.
 - Tractor trailers not allowed except when delivering and removing mobile stages.
 - o Limited approved turf vehicles with turf tires are allowed to drive on turf.
- Chairs and tables are allowed to be set up directly on the turf.

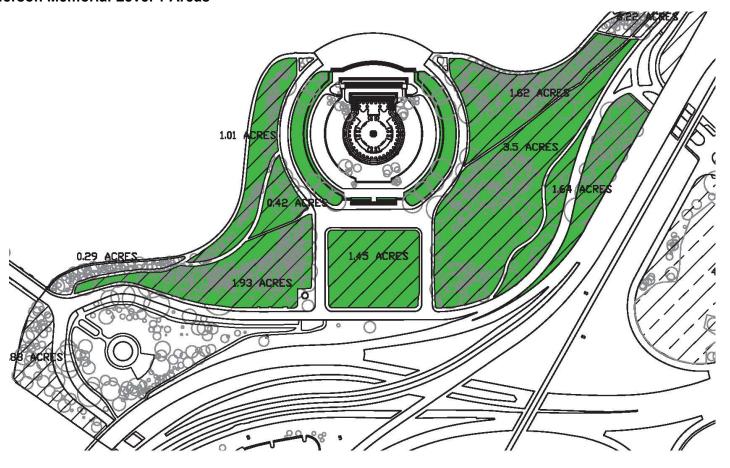


1.3.6 Lincoln Memorial Level 1 Areas



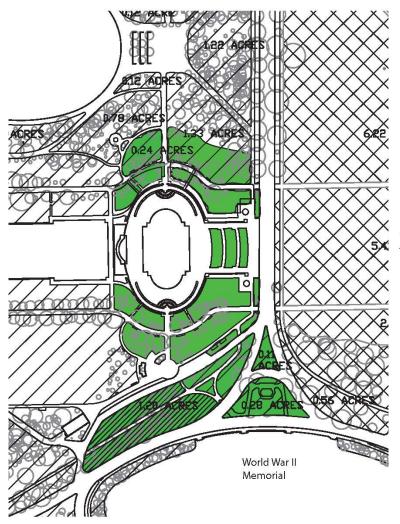


1.3.7 Jefferson Memorial Level 1 Areas





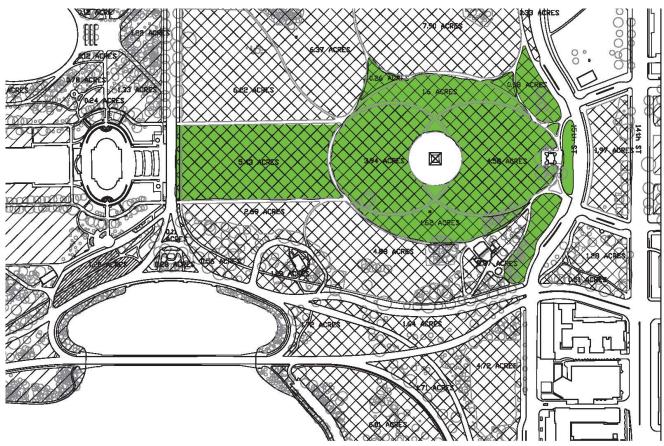
1.3.8 World War II Memorial Level 1 Areas



Center Panels of WWII may be used for chair set up without turf protection.



1.3.9 Washington Monument Level 1 Areas





1.4 Key Team Players

The National Mall is in acutely high demand; its management requires diverse technical abilities and skills. Depending upon what is envisioned by an event producer, the mix of NPS staff necessary will vary by event. It is expected that the cost to support the necessary team shall be borne by the Permittee.

Many of the key team players identified in the *SEPG* are the same as those identified in this document; however, specific staff, with special responsibilities and appropriate technical training, is involved with National Mall and Memorial Parks (NAMA) events held on turf areas. This includes the following roles:

- NAMA Event Coordinator
- NAMA Permits Management Division Chief
- NPS Permits Management Specialist
- NAMA Turf Manager
- NAMA Compliance Monitor

The special duties of these positions as related to events on the National Mall are outlined below:

1.4.1 NAMA Event Coordinator

The NAMA Event Coordinator is the person responsible for coordinating and scheduling NPS-sponsored national celebrations, special events or activities. Events related to the Mall's purpose and significance (see section 1.1) have priority prescheduling on the permits management calendar or database. This staff position resides in the Division of Interpretation and Education.

1.4.2 NAMA Permits Management Division Chief

The NAMA permits management staff provides services not only to NAMA but also other parks within the National Capital Region (NCR). The NAMA Permits Management Division Chief assigns and manages staff to work with Permittees; to schedule, monitor, track and report on a wide variety of permitted activities; and to recover related costs.

1.4.3 NPS Permits Management Specialist

The NPS Permit Specialist serves as the primary point of contact for the Applicant and Permittee, and coordinates with other divisions and other park staff, such as the Turf Manager.

The NPS Permit Specialist shall be responsible for working with the Permittee to resolve all issues related to the event, particularly those reported by Event Monitors.

1.4.4 Event Monitors

Event Monitors are responsible for monitoring of the event including set up and tear down, ensuring the Permittee follows the guidelines set forth by NPS and administering the permit. Event Monitors report to the NPS Permits Management Specialist and are responsible for being onsite during the duration of the event for monitoring purposes.



If monitors find issue with the Permittee, they will address the issue immediately with the persons involved and report the incident to the NPS Permits Management Specialist.

All reasonable instructions given by Event Monitors must be obeyed promptly. Failure to comply with all the terms and conditions of the public gathering permit may constitute grounds for revocation of the permit and immediate termination of the event, and/or citation against the violator(s).

1.4.5 NAMA Turf Manager

The Turf Manager is responsible for the health and overall maintenance of the turf, soil and irrigation system. The Turf Manager generally monitors and tracks the condition of the turf to maintain a healthy turf and provides a record of conditions linked to permitted or other uses, weather conditions, or other factors. The Turf Manager and/or team participate in pre-event planning for events with expected attendance of over 1,000 or as determined in conjunction with the Permit Specialist as well as the pre- and post-event walk through assessments to evaluate and record the condition and health of the turf and to verify the functionality of the irrigation or other systems¹. The Turf Manager leads the Grounds Maintenance team assigned to the Mall.

The Turf Manager will determine if additional measures beyond those identified in the permit are necessary due to changing circumstances.

The Turf Manager and team act as a resource in the development of cost recovery requirements and also serve as a resource to the NPS Permit Specialist during the planning, implementation, and take-down of event.

In addition to the operations procedures outlined within this document, the Turf Manager has developed a turf wear index². This charting system assists the Turf Manager by enabling better visualization and tracking of the amount of activity occurring on the turf. Because some activities have greater impacts on turf than others, assigning numerical value to different uses will help the Turf Manager assess potential damage and prescribe an appropriate level of maintenance.

In addition to variety of use, environmental conditions are also considered when using a turf wear index. For instance, if an event takes place during or after a rain storm the negative impact on the turf is increased. Use of this tool allows the Turf Manager to accurately calculate turf wear based on activity, duration, and environmental conditions, and prescribe maintenance according to these factors.

1.4.6 NAMA Compliance M(s)

A variety of compliance specialists may be required depending on the nature of the event. These could include code specialists, NEPA compliance, public health and safety, law enforcement, transportation, and could include a multi-agency or incident

¹ Additional pre-planning activities may be required at the discretion of the Turf Manager.

² An example Turf Wear Index can be found in the appendix (*Using a Turf Wear Index*, adapted from work by David Schlotthauer, Turf Expert, Brigham Young University).



command approach. As defined in permit conditions, the Permit Specialist may serve this ${\rm role}^1$.

¹ At the discretion of the permit specialist, additional input may be required. This will be determined on an event by event basis.



2 Revised Permit Conditions

2.1 Timeframes for Pre-event Preparation and Post-event Turf Restoration

The following table includes recommended scheduled timeframes for pre-event preparation and post-event restoration¹ for events held on the newly renovated high-performance turf panels. As activities are permitted, these time periods should be scheduled before and after the permitted event. Scheduled maintenance and restoration timeframes should be posted on the permit system for all to see.

This chart documents recommended timeframes only. The Turf Manager may recommend alternate durations based upon event conditions and/or turf conditions.

The following notes apply to all timeframes and all event parameters:

Pre-event preparation:

- Where feasible, it is recommended that the turf be mowed in two directions on the day of the event.
- Seeding in advance will allow the seed to be worked in by foot traffic or pre germinated by protective decking allow for new seed to be in place to help with recovery.
- Fungicide application prior to decking installation.

Post-event recovery:

- Following events where turf covers are used, the panel must be closed for 48-hours prior to interaction with the grass by the Turf Management team. See section 4.2 of this chapter for details on turf covering.
- Depending upon level of damage caused by event, resodding may be required.
- Sod knitting will take a minimum of three weeks, and may take up to 60 days
 depending on time of year and sod thickness. During first three (3) weeks after
 installation, usage shall be extremely limited in order to provide the roots an
 opportunity to firmly knit with soil and insures that the turf will remain smooth.

¹ Extraordinary circumstances, such as a hurricane or larger than expected crowds, may require additional time affecting subsequent pre-events and next events. Pre-event preparation and post-event recovery time may vary based upon the size and duration of the event, the types of materials used, weather conditions, and the general conditions of the turf, among other factors. The timeframes recommended in this table are based upon best practices. The Turf Manager may make alternate recommendations based upon event parameters and turf conditions.



Table 1: Landscape Deposit

Event Parameters

Minor Event: less than 25 attendees

Small Event: 26 to 999 attendees

Medium Event: 1,000 to 4,999 attendees

Large Event: 5K to 50K attendees

Very Large Event: 50k to 249K

Extreme Event: 250K+ attendees

Per acre amounts	Minor Event less than 25 attendees	Small Event 26 to 999 attendees	Medium Event 1,000 to 4,999 attendees	Large Event 5K to 50K attendees	Very Large Event 50k to 249K attendees	Extreme Event 250K+ attendees
Low Risk	\$	\$ 500.00	\$ 1,000.00	\$ 5,000.00	\$ 10,000.00	\$ 20,000.00
Medium Risk	\$ 500.00	\$ 2,500.00	\$ 5,000.00	\$ 10,000.00	\$ 20,000.00	\$ 35,000.00
High Risk	\$ 1,000.00	\$ 5,000.00	\$ 10,000.00	\$ 25,000.00	\$ 40,000.00	\$ 72,000.00



2.2 Level 1 Turf Areas Use Limits for Temporary Facilities

The following table includes use limits for temporary facilities on the Level 1 turf areas.

Table 2: Level 1 Turf Area Use Limits and Time Restrictions for Temporary Facilities

Note: Set up and take down crews may work up to 24 hours a day if needed to meet seasonally adjusted timeframes. All structures on turf require protective decking.

	SPRING March 15 – May 14	SUMMER May 15 – Sept 14	FALL Sept 15 – Nov 14	WINTER Nov 15 – March 14
Vehicles of any kind (delivery, cranes, forklifts, golf carts, trailers, exhibit trailers, etc.)	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
 Temporary facilities that can be hand carried onto panels from hardscapes Tents and facilities with stakes no longer than 36"1 Facilities such as stages, exhibits, displays, and media towers² Seating, pedestrian surfacing³, bicycle rack, cardboard recycling or trash containers⁴ 	5 days inclusive of set up and take down	3 days inclusive of set up and take down	5 days inclusive of set up and take down	10 days inclusive of set up and take down

¹ No staking within the designated no-staking zone to protect irrigation. The irrigation system shall be tested before and after event to ensure functionality. Stakes longer than 36" are always prohibited because they could damage drain lines, which cannot be tested.

² Weight cannot exceed 3,000 pounds unless materials are used to distribute the weight; in this event, the pressure to the turf cannot exceed 10 pounds per square inch.

³ Required on turf areas where full capacity is expected.

⁴ Trash containers/bags must be hand carried to walkways/streets and held in designated areas for pick up as per permit conditions.



	SPRING March 15 – May 14	SUMMER May 15 – Sept 14	FALL Sept 15 – Nov 14	WINTER Nov 15 – March 14
Back of house, trailers, bone yards, generators, portable toilets, etc.	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
Vehicle mounted equipment such as signs, stages, LED screens, media towers and light towers	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs	Not allowed on turf or curbs.
Sporting Events – green flags designate areas open for play; red flags and ropes designate areas rotating into short rest periods and not available for use ¹	Per flag system	Per flag system	Per flag system	Per flag system

¹ See section 3.3 on page 32 for detailed description of the Public-Awareness Closure Program.



2.3 Allowable Temporary Facilities on Other Mall Areas

The following table includes allowable temporary facilities on the Mall (areas other than level 1 turf areas).

Table 3: Allowable Temporary Facilities on Other Mall Areas

	Walkways and Non-turf Areas	Madison and Jefferson	Tree and Turf Panels	Gravel Tree Verges ¹ (Madison Jefferson)	Turf Verges ²	Welcome Plaza/ Smithsonian Metro	Concession Stand Areas
Tents	Yes – but no staking	Yes – but no staking	No	No	No	Yes – but no staking	No
Stages	Yes	Yes	No	Yes	Yes	No	No
Other temporary structures ³	Per conditions	Per conditions	No	No	Per conditions	Per conditions	Per conditions
Back of house, trailers, bone yards, generators, etc.	Yes	Yes, but no boneyards	No	No	No	No	No
Vehicles (golf carts) as per permit conditions ⁴	Yes	Yes	No	No	No	Per conditions	No
Cranes and delivery vehicles ⁵	Yes	Yes	No	No	No	No	No

¹ A tree verge on Madison and Jefferson is a circular planting zone at the back of a curb, adjacent to a roadway.

² A turf verge is a narrow turf grass planting zone at the back of a curb, adjacent to a roadway. Efforts should be made to span the verge when possible when structures are used.

³ Temporary structures beyond tents, stages, and fencing might include elements such as lighting towers, audio towers, AV towers, displays, platforms, and portable restroom facilities, among others.

⁴ Vehicle parking areas or corrals shall be identified in plans related to permit conditions.

⁵ Cranes and delivery vehicles must obey designated routes in permit conditions; cranes and delivery vehicles must remain five feet (5') away from granite curbs and turf; curbs and turf must be protected at all times.



	Walkways and Non-turf Areas	Madison and Jefferson	Tree and Turf Panels	Gravel Tree Verges ¹ (Madison Jefferson)	Turf Verges ²	Welcome Plaza/ Smithsonian Metro	Concession Stand Areas
 Vehicle mounted signs, stages, LED screens, media towers, light towers 	Yes	Yes	No	No	No	Yes	No
Portable toilets/toilet trucks ¹	Designated areas only	Designated areas only	No	Designated areas only	No	No	No
Dumpsters	Per conditions	Yes	No	No	No	No	No
Barriers/bike racks ²	Yes	Yes	Yes	Yes	Yes	Per conditions	No
NPS fencing that is staked ³	No	No	Yes	Yes	Yes	No	No
Security Checkpoints	Yes	Yes	No	No	No	No	No

¹ Portable restroom facilities are not permitted on the turf or tree panels and must be located in hardscape areas.

² Event barriers shall not be secured using stakes.

³ NPS staking will follow guidelines as outlined for Permittees and be installed under NPS oversight.



2.4 Closure and Cancellation for Events on the National Mall

The following table includes information related to closure and cancellation policy for the National Mall. Closures shall be enacted for health and safety, weather, and soil condition¹ reasons. It shall be the responsibility of the Turf Manager to determine the level of saturation suitable for usage; this will vary based upon factors such as the season and recent/upcoming weather events.

Table 4: Closure and Cancellation for the National Mall

	Soil Moisture Level/Test	Public/Permit Holder Informed ² (per 36 CFR 1.5, 1.6, 1.7, 1.10)
GENERAL INFORMATION: CLOSUF	RE AND CANCELLATION	
Mandatory cancellation		 For emergency, public health or safety (36 CFR 1.5)³ In conjunction with USPP Mass notification procedures in place
Cancelling permitted athletics and pick- up ball games NPS shall establish a flag system for the Mall to rotate panel usage and notify players when areas are too wet for use ⁴ Flags will incorporate symbols per 36 CFR 1.10	No events shall be held in the event that there is visible puddling on the Mall. In the event of recent rain that has not resulted in puddling, the Turf Manager should use a soil probe to determine the moisture of the soil. ⁵	 Permitted athletics are prohibited from playing on wet ground (36 CFR79.6 (b)(2) On-site temporary signs placed by Turf Manager On-site NPS staff NPS will establish a public information campaign - no play in standing water or when soil moisture is high; flag system described

¹ Soil conditions shall be evaluated to ensure prevention of damage to the turf; this is particularly important in the event of extremely moist or wet soil, which is subject to greater damage.

² USPP, in conjunction with NPS, will be responsible for citing permit holders causing damage or not adhering to permit rules.

³ 36 CFR 2.32(a)(2) This regulation allows lawful orders to be issued "to maintain order and control public access and movement during…law enforcement actions, and emergency operations that involve a threat to public safety or park resources…where the control of public movement and activities is necessary to maintain order and public safety.

⁴ See chapter 2 section 3.10 for detailed description of the Public-Awareness Closure Program.

⁵ The Turf Manager may determine that impending weather conditions will result in wet conditions within the same day and may cancel events to prevent damage. Soil moisture readings greater than 30% indicate that damage will occur.



	Soil Moisture Level/Test	Public/Permit Holder Informed ² (per 36 CFR 1.5, 1.6, 1.7, 1.10)
PERMIT STEPS AND CLOSURE AND CA	ANCELLATION INFORMATION FOR A	APPLICANT AND PERMITTEE
Application contains notification of cancellation policy		 Review weather projections and seasonal patterns Rain dates pre-determined during rainy seasons Review closure and cancellation policy; there is no guarantee of rescheduling; there is no reimbursement
Operations inventory and event schedule 14 days before event		 Weather and soil moisture warning; Back-up plan for cancellation, rain dates, relocation to Tidal Basin Parking Lot, or rescheduling availability
Pre-event meeting 5 days before		Weather and soil moisture warning
Pre-event walk through 3 days before event	Test soil moisture	Initiate back up plan
Set up of temporary facilities	Soil moisture is high	Delay of set up; cancellation required within 2-3 days of event
Event days (public activity days)	On site monitoring	Rain delays
Take down of temporary facilities		 Postpone tear down until soil moisture levels are at an appropriate level.

¹ The amount of time necessary for soil moisture levels to reduce to an appropriate level will vary based upon weather conditions. The Turf Manager and team shall monitor conditions and inform Permittee when soil moisture levels have reached an acceptable level for take down of temporary facilities.

² USPP, in conjunction with NPS, will be responsible for citing permit holders causing damage or not adhering to permit rules.



3 Permitting Process: Special Steps for Events on the National Mall

3.1 Event Checklist and Procedures to Protect Turf, Soil and Irrigation

The following table can be used to ensure Permittees meet all the deadlines outlined in the manual and meet the conditions of the permit. Please note that the timeline may vary based upon the scale of the event. The NPS Permit Specialist will work with the Permittee to determine exact dates/schedule for the permitted event. The table can also be used to ensure Permittees, the Permits Management Office, and the Turf Manager and teams understand responsibilities associated with procedures established to help protect the Mall turf, soil, and irrigation system.

Table 5: Event Checklist and Procedures to Protect Mall Turf, Soil and Irrigation

Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
	PRE-EVENT PREPA	RATION		
Planning	Permit system must highlight the scale of event and expected attendance	Inform Permit Office about scale of event and expected attendance	Inform Turf Manager of events likely to affect turf condition	 Identify concerns and work with permits office Plan advance strategy to maintain turf in good to excellent condition
Turf Maintenance				 Document soil and turf conditions on a regular basis Seeding Fungicide Application Fertilizer Application Follow guidelines from Chapter 2



Steps	Permit System Permittee		Permits Management Office	Turf Manager/Staff
Irrigation/watering				 Examine irrigation system heads Test system Program system so as not to spray the event Determine whether special irrigation such as hand watering or syringing will be necessary during the event and to what level
	(48 hours prior to start	THROUGH PRIOR TO S t of setup)	START OF SETUP	
Participants	Permit system identifies which stakeholders must attend, including Permittee	entifies which attend attend attend end, including		Representative from Mall Turf Management Team must attend
Condition assessment	Permit system must recommend photo documentation for the benefit of all parties Permit system must require Permittee to sign-off on condition assessment document	is recommended for the benefit of all parties cement noted as "existing" pre-event sassessment document. is recommended for the benefit of all parties cement noted as "existing" pre-event sign-off on condition assessment documer prepare report. Archives		 Photo document to support long term tracking of turf and soil conditions Document findings of walk-through Sign-off on condition assessment document



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Logistics: Delivery schedule Fencing Ground cover Cables	Permit system must require Permittee to provide information about delivery and load in	Provide information about delivery and load in	Review posted delivery schedule Ensure permit conditions are followed	Review posted logistics and transmit concerns to Permits office
	EVENT			
Soil and turf condition		Follow permit conditions	Ensure permit conditions are followed	Daily turf and soil monitoring check conditions and transmit concerns to Permit office
Generators		Follow permit conditions	 Ensure permit conditions are followed Ensure all generators enclosed by fence and placed in fire retardant containment unit 	Check conditions daily and transmit concerns to Permit office
Structures		Follow permit conditions	 Ensure permit conditions are followed If staked, ensure that stakes are less than 36" 	Check conditions daily and transmit concerns to Permit office



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
In case of significant rainfall or other extreme weather conditions		Work with Permits Management Office and Superintendent in the event of extreme weather conditions	Coordinate cancellations, delays, or other requirements with the superintendent and Permittee	Examine turf conditions including soil temperature and saturation; make recommendation to superintendent whether event can continue without damage to the turf and if additional steps are required (such as additional pedestrian flooring, etc.)
Daily inspections: monitoring and recording conditions, weather, etc.			Events monitors to monitor event for compliance	Turf Manager and/or staff to monitor condition of turfgrass Archive information in database



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
	POST-EVENT WALK (1 day after event take			
Post event walk through with the Permittee/condition assessment	ost event walk through th the require Permittee to participate in walk		Participate in walk through Photo documentation of conditions Note inconsistencies with permit conditions Sign off concurrence document related to condition assessment	Participate in walk through Examine turf for excessive wear or damage caused by event Photo documentation of conditions Sign off concurrence document related to condition assessment
	POST-EVENT RECO	VERY PERIOD		
Turf recovery • Permit system documents if level of damage resulting in the need for cost recovery is caused to turf, and notifies Permittee		Responds to cost recovery request	Assign damage costs to Permittee if applicable Assign costs of turf management team	48 hours after flooring removal, mow turfgrass Three days after flooring removal, staff will commence recovery maintenance practices



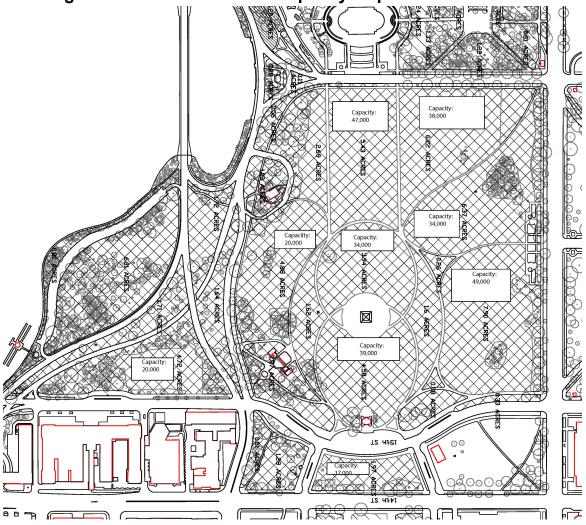
Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff
Aeration/seeding	 Permit system documents if additional aeration is required, and notifies Permittee of cost recovery 	Responds to cost recovery request	Determine whether Permittee is responsible for bearing the cost of additional aeration	Determine whether additional aeration or seeding is necessary based on turf and soil conditions following event.
Irrigation/watering	Permit system documents if damage is caused to the irrigation system, and notifies Permittee to pay cost of alternate/interim irrigation	Responds to cost recovery request	Assign damage costs to Permittee if applicable	Examine heads Test system Determine if event has caused damage to system Determine if additional watering is required to ensure health of turf
Soil condition	Permit system documents if level of damage resulting in the need for cost recovery is caused to soil, and notifies Permittee	Responds to cost recovery request	Determine whether Permittee is responsible for bearing the cost of additional fertilization	Examine soil for excessive damage caused during event Determine whether additional fertilization is required
Fencing	Permit system documents if level of damage resulting in the need for cost recovery is caused to soil, and notifies Permittee	Responds to cost recovery request	Assign damage costs to Permittee if applicable	Use fencing as necessary to protect recovering turf



Steps	Permit System	Permittee	Permits Management Office	Turf Manager/Staff	
Record conditions • Permit system saves archive copy of conditions		Records conditions Record conditions and add observations to see of best practices		 Record conditions and add observations to set of best practices Archive conditions 	
Prepare report • Permit system saves archive copy of report with permit		Archive report	Prepare letter on event- related issues; combine with turf report from Turf Manager	Develop report of findings related to turf	

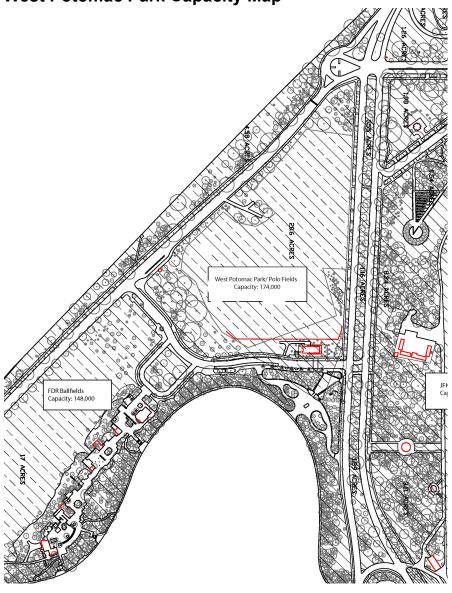


3.2 Washington Monument Grounds Capacity Map



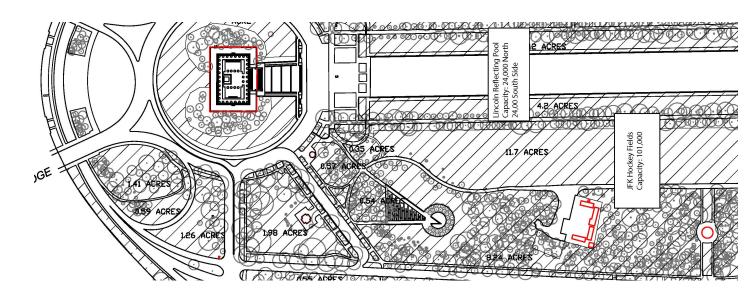


3.3 West Potomac Park Capacity Map





3.4 Lincoln Memorial Area Capacity Map





3.5 Mall Area Capacity

Refer to section 1.4 for venue opportunity maps indicating areas in which Permittees may hold events as well as type of use allowed for each area.

Table 7: Panel Use Limitations to Protect Mall Turf, Trees, Soil, and Irrigation

Panel	Description	Area (SF)	Maximum Estimated Capacity – Seated	Maximum Estimated Capacity – Standing	Temporary Structures ¹
Sugges	sted capacity ca	Iculation met	ric: 15 SF per person seated, i	with tables and chairs; 5 SF per pe	erson standing ²
1	Tree	60,988	Not permitted	12,200	Not permitted
2	Tree	63,834	Not permitted	12,770	Not permitted
3	Hardscape	19,933	1,330	3,990	Permitted
4	Tree	64,865	Not permitted	12,970	Not permitted
5	Tree	66,536	Not permitted	13,310	Not permitted
6	Tree	19,990	Not permitted	4,000	Not permitted
7	Tree	18,970	Not permitted	3,790	Not permitted
8	Hardscape	19,093	1,270	3,820	Permitted
9	Tree	19,895	Not permitted	3,980	Not permitted
10	Tree	3,122	Not permitted	620	Not permitted
11	Tree	2,034	Not permitted	410	Not permitted
12	Tree	66,483	Not permitted	3,300	Not permitted
13	Tree	77,935	Not permitted	15,590	Not permitted
14	Tree	2,222	Not permitted	440	Not permitted
15	Tree	2,268	Not permitted	450	Not permitted
16	Tree	69,520	Not permitted	13,900	Not permitted
17	Tree	2,722	Not permitted	540	Not permitted

¹ Not permitted on tree panels; strongly discouraged on turf panels but allowed with approved protection. Refer to Section 2.2, Mall Center Turf Panels Use Limits for Temporary Facilities and Section 2.3, Allowable Temporary Facilities on the Mall (Outside Center Turf Panels)² Capacity calculation metrics assume no structures on the panel; calculations may be adjusted in conjunction with the NPS Event Coordinator based on the site plan. All egress and fencing must be designed to be code compliant.

² Capacity calculation metrics assume no structures on the panel; calculations may be adjusted in conjunction with the NPS Event Coordinator based on the site plan. All egress and fencing must be designed to be code compliant.



Panel	Description	Area (SF)	Maximum Estimated Capacity – Seated	Maximum Estimated Capacity – Standing	Temporary Structures ¹
18	Turf	84,780	5,650	16,960	Use Limits
19	Turf	83,780	5,585	16,760	Use Limits
20	Hardscape	18,834	1,260	3,770	Permitted
21	Turf	88,985	5,930	17,800	Use Limits
22	Turf	87,680	5,845	17,540	Use Limits
23-26	Turf	76,370	5,090	15,275	Use Limits
27	Turf	3,288	220	660	Use Limits
28	Turf	2,712	180	540	Use Limits
29	Turf	87,327	5,820	17,470	Use Limits
30	Turf	101,566	6,770	20,310	Use Limits
31	Turf	2,897	190	580	Use Limits
32	Turf	2,787	190	560	Use Limits
33	Turf	91,623	6,110	18,325	Use Limits
34	Turf	3,213	215	640	Use Limits
35	NA	NA	NA	NA	NA
36 ¹	NA	NA	NA	NA	NA
37 ¹	NA	NA	NA	NA	NA
38	Tree	64,860	Not permitted	12,970	Not permitted
39	Tree	60,222	Not permitted	12,040	Not permitted
40	Hardscape	19,910	1,330	3,980	Permitted
41	Tree	25,350	Not permitted	5,070	Not permitted
42	Tree	4,755	Not permitted	950	Not permitted
43	Tree	19,450	Not permitted	3,890	Not permitted
44	Tree	3,081	Not permitted	620	Not permitted
45	Tree	1,990	Not permitted	400	Not permitted
46	Tree	66,394	Not permitted	13,280	Not permitted

¹ Panels 35, 36, and 37 are no longer under the jurisdiction of the NPS; jurisdiction of this land was transferred to the Architect of the Capitol on December 23, 2011.

¹ Not permitted on tree panels; strongly discouraged on turf panels but allowed with approved protection. Refer to Section 2.2, Mall Center Turf Panels Use Limits for Temporary Facilities and Section 2.3, Allowable Temporary Facilities on the Mall (Outside Center Turf Panels)

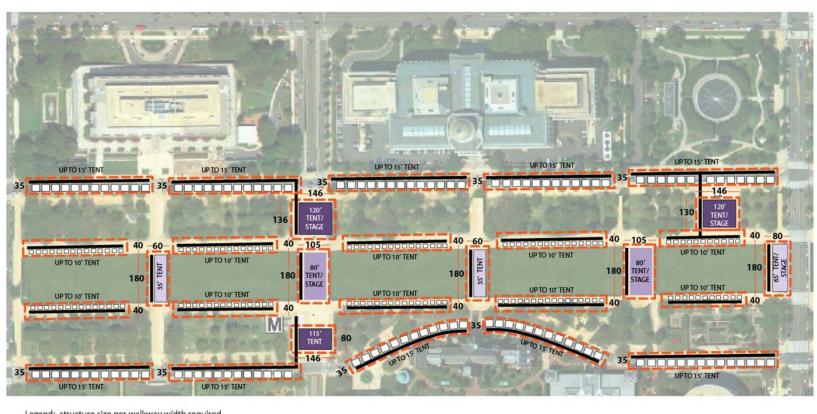


47	Tree	74,328	Not permitted	14,870	Not permitted
48	Tree	1,916	Not permitted	380	Not permitted
49	Tree	2,106	Not permitted	420	Not permitted
50	Tree	70,030	Not permitted	14,010	Not permitted
51	Tree	2,160	Not permitted	430	Not permitted
	North and South running hardscape – walkways ¹	TBD ²	TBD	TBD	Permitted
	East and west running hardscape walkways ¹	TBD ²	TBD	TBD	Permitted

¹ No staking is permitted on walkways. Emergency access requires a fifteen foot (15') clear span.
² Design of walkways is incomplete at the time of this publication; at completion of design, the area allotted to Permittees will be calculated by multiplying the entire width of the sidewalk used by the length of the sidewalk contiguous with the panels included in the permit. Refer to Section 1.4 for proposed areas.



The following map illustrates the maximum width and length for temporary structures placed in non-turf areas. Each designation allows for the maximum standard tent size, space for tent supports on every side, and a required 15 foot clear area for pedestrians and emergency vehicles.





15' Pedestrian walk and Emergency access route + 10' Area for Tent Support



3.3 Public-Awareness Closure Program

For the success of turf maintenance, it is critical for the public to be not only aware but actively engaged in the protection and preservation of the resource. Development of a system to educate and engage the public on when to use or avoid turf areas is recommended. Such a system will demonstrate to the general public the care and dedication of NPS to maintaining and preserving the Mall as a national treasure.

NPS believes using positive messaging to convey to the public why an area is closed or a use restricted due to resource rehabilitation efforts or regular maintenance procedures helps build support for maintenance goals. This includes signage on and around the Mall, as well as online. Outreach may be done with local



neighbors such as the Capitol Complex, the Smithsonian, the Capitol Hill neighborhood, and many of the Federal Agencies inhabiting the facilities surrounding the Mall.

A red flag system will be used to help communicate the usability of each area or sections thereof on the National Mall, similar to that used on the Central Park lawn spaces. Red flags will be located at the four corners of a panel or section thereof along the two eastwest walkways, thus signifying the closure of the adjacent panel. These shall be posted when panels are closed for maintenance or due to adverse weather conditions when the turf is vulnerable to damage, or during recovery periods after a large event.

NPS will provide an education system to inform the public of the flag system's intent and procedures. Flags will be accompanied by informational signage addressing the process and purpose of the flags, informing visitors of the program that is in place to protect the Mall. The information provided should be identifiable, consistent, understandable, and current. Messaging of the program should be integrated with repair and recovery signage.

Panels marked with red flags, signals the closure for issues related to scheduled and unforeseen maintenance including:

- Newly seeded or sodded panels to allow for the turf to grow in
- Pest mitigation, mowing, fertilizing, aeration, topdressing operations
- Heavily trafficked panels requiring a rehabilitation and recovery period

Level 1 areas may be temporarily closed due to permitted events. Some events require set up and breakdown periods; the permit may call for closure of the areas to the public during these times to promote public safety. Permitted events may have limited attendance; thereby requiring closure of the panel to the public during the event. Closure of panels will be determined by the NPS permit staff in conjunction with the Turf Manager.

Adverse weather conditions will also force the temporary closure of panels for casual use, including those that are:

Heavily saturated from large rain events



Frosts - high traffic on frosted grass will greatly damage the turf

The NPS Turf Manager is responsible for monitoring the conditions of the turf panels and determining whether the turf areas are acceptable for use; if not, then the Turf Manager will implement the red flag closure system.

Once the red flags are clearly displayed to alert the public that an area is closed, the U.S. Park Police will enforce the flag system and direct users to open panels. With a Record of Determination having earlier been done pursuant to 36 CFR 1.5, the Park Police have ample authority to cite users who disobey the direction provided by the flags.



4 Turf Protection Planning Guide – A Primer for Applicants

Turfgrass is a living, breathing, organism which requires six basic elements for survival: air, water, food/nutrients, sunshine/light, proper temperature and rest. When any of these elements are not provided or removed from the equation, the decline and possible death of the turfgrass is imminent.

Events can be very damaging to the health of turf as they often result in limiting the turfgrass from access air, water, nutrients and light. Damage to the turf areas primarily occur due to wear (tearing and abrasion of the above ground parts of the plant) and soil compaction, (reducing the pore space in the soil which limits air and water availability) ultimately damaging turf.

Turf Area Protective Decking Guidelines

For the protection of the park's resources, the National Park Service must institute management practices to limit damage to the turf.

Temporary covering of turf substantially reduces wear injury by protecting the plant from tearing and abrasion due to traffic. Temporary covering helps reduce soil compaction although it is not eliminated. Set up for events are encouraged to be configured to avoid concentrating foot traffic and the need for protective decking.

Acceptable Turf Decking Systems All Year: There are conditions that warrant a solid back such as some soft soil conditions, temporary cover for equipment access, or hot weather. In this case MatraxHD, ArmorDeck 3, RGT Panel Flat back, or equal is acceptable; but plywood is not ever an acceptable material.

Acceptable Turf Decking Systems September 15 to May 15: Products such as Terraplas, ArmorDeck 1, RGT Panel Pedestrian.

These are ADA-compliant, interlocking mats that are translucent to allow UV light to pass through or provide light to the grass below. These types of materials are considered leading turf protection systems for stadia and other venues such as public parks, racecourses, and private events and are used for walkways, exhibitions, show stands and hospitality areas. An approved equal to these would be translucent in color, flat backed, and would lock together with adjoining pieces. Time restrictions are the same as with cavity back below.





Landscape or other fabrics are not permitted underneath due to their negative affect on the turf. These effects include heat buildup, lack of gas exchange, and the restriction of light.

Acceptable Turf Decking Systems September 15 to May 15: Products such as Terraplas, ArmorDeck 1, RGT Panel Pedestrian. These types of materials are considered leading turf protection systems for stadia and other venues such as public parks, racecourses, and private events and are used for walkways, exhibitions, show stands and hospitality areas. These products are quick and easy to fit; allows passage of air, light, and water; perform to high public safety standards; and protect turf from large crowds and structures.

While temporary turf decking helps prevent some damage if used for a short period of time, covering the turfgrass still results in additional stressors such as reduced airflow, restricted moisture infiltration, heat buildup, and reduced light, so seasonally adjusted turf cover time limits are needed.

Pedestrian flooring shall follow the guidelines below:

- Comprised of single-sided or double sided high density translucent polypropylene. Vehicles are not allowed on the cavity back type of protective decking (vehicles are only allowed on solid back decking in level 2 turf areas).
- Be lightweight—covering must be carried and set in place or removed without vehicular assistance (Level 2 areas allow vehicles on decking). Hand carts will be allowed on the turf decking.
- Not result in turf damage during removal.
- The cavity back (if specified) must have appropriate clearance above crown of grass (not compress the turf, approximately 1.75" to 2.25"); this depends on the time of year and ground conditions.
- Cavity back must have holes for air, light, and water to permeate the product.
 - No fabric or other obstructions to turf decking covering holes or blocking light will be allowed below the protective decking.
- Carpet may be allowed on top of the decking with seasonally defined time restrictions (see inserted box above)
- Installed no more than one (1) day prior to the event. Therefore, installation after five (5) pm and working through the night to minimize turf coverage time is permitted with approval from the Superintendent's office.
 - Permittee will be responsible for paying personnel overtime charges related to the assignment of National Park Service employees and US Park Police for monitoring set-up and take down construction or security

beyond an eight hour shift or on weekends.

 Plywood is not ever an acceptable temporary covering. Plywood blocks nearly all irradiance, thereby shutting down the photosynthetic process within the turfgrass plants. This results in unacceptable decline of turfgrass health. In addition, it is unable to interlock.





Time Limits for Protective Decking

Total turf coverage time including set up:
November 15 to March 14: 10 days
March 15 to May 14: 5 days
May 15 to September 14: 3 days
September 15 to November 14: 5 days

Time Limits for Blocking Photosynthesis (i.e. tents, stages)

November 15 to March 14: 5 days

March 15 to May 14: 3 days

May 15 to September 14: 2 days

September 15 to November 14: 3 days

Carpets above the decking with seasonally defined time limits.

May 15 to September 14 carpet allowed for 6 hours after 6 pm

September 15 to May 14 carpet allowed for 24 hours.

Deviations require superintendent's approval.

Products proposed must be approved by the NPS Turf Specialist and affirmed through the permitting process (planning, writing) by the Permit Specialist.

Tents or Other Temporary Structures on Turf Areas

Permittee shall provide a certification statement confirming all temporary structures comply with the following requirements: local building/life safety codes, ASCE 7-05,NFPA-101, IBC 2006 and IFC 2006.

Permittee shall provide drawings for all structures (including foundation/anchoring systems) over 500 square feet in area. Drawings are also required where the total combined area of connected individual structures exceeds 500 square feet. Structures shall be considered connected if they are within 5-feet of each other, share a common foundation/anchor, share a common utility, or are connected by any other means. Temporary walkways shall not be considered when evaluating if structures are connected.

All temporary structure drawings must be signed and sealed by a professional engineer licensed in the District of Columbia.

Grounding rods are permitted in areas outside the "No Stake" zones (maps at the end of this chapter). The permittee must hire a private utility locating company to determine if an area is safe for this.

It is strongly encouraged that structures be placed on the park's hardscape areas where they will not impact the turf. However, the NPS may allow, under permit, structures on turf



(structures not permitted on center turf areas at WWII, upper circles at Jefferson. Lincoln, and Washington, and the view shed of the Washington Monument), if the Permittee's use of structure and equipment follows the turf protection measures as detailed below. Without the necessary resource protection measures, structures are not permitted on turf and must be limited to locations on the hardscape surfaces.

If tents or other temporary structures are placed on the turf, they must follow the guidelines below:

- In event areas where there are underground utilities or designated no stake zones, water filled ballast tanks or concrete blocks will be used on the turf with proper protection decking and seasonal time restrictions. This is to help minimize compaction of the turf by the weight of the ballasts. This also allows maximum access of air, sunlight, and water to the turfgrass.
 - Vehicles are not allowed on turf to place ballasts.
 - Water from tanks may not be dumped on park grounds.
- Any approved staking cannot take place without a National Park Service official present.
 - Permittee to hire a private utility marking company for stakes deeper than 18"
- All structures shall be hand carried onto turf level 1 turf areas.
- Protective decking (guidelines above) will be installed slightly larger than the footprint of the structure and pedestrian pathways to the tent entrance(s).
- Tent posts will be placed directly on approved decking (above).
- Tent walls will be put on at the last possible moment before the event. This will allow for air circulation and light penetration for turf health. Please refer to the preceding table for guidance on time requirements for blocking photosynthesis.
- Chairs, other seating, and other temporary structures will be located on protective decking.
- All screws, fasteners, and ties should be policed during the build and retained during the removal. They should be made of a non-aluminum or non-plastic material.
 Cleanup with a magnetic sweeper is required to ensure all fasteners and screws are retrieved.
- Steel, lumber, vinyl, and other construction materials, etc. should not be left on the turfgrass for a prolonged period of time (more than 4 hours).

Temporary Stages on Turf

The park has many locations where stages can be set up on hardscape. However, stages with proper turf protection can be set up in certain turf areas if approved by the NPS in the permit conditions. The stage must be arranged so that as much turf can be protected as possible, this is accomplished by utilizing hardscape areas. Plywood, because of its ability to be modified to the proper size, is allowable for protection of turf from screw jacks or ballasts. Event planners should plan on some turf replacement with thick cut sod where the plywood is used.

- Protective decking will be installed under the stage, except where ballasts exceeding the weight capacity of the protective decking is installed.
- Every effort should be made to locate the stage on hardscape so that the turf can be clear spanned.



- All structures must minimize all points that come in contact with the turf grass, structures on the turf should be on a riser with as few points as possible touching the turf, if not on the protective decking, these points should have Enkamat and plywood pads underneath as outlined:
 - Each screw jack should have a 16"x16"wooden pad (3/4" plywood) and two layers of Enkamat 18"x18".
 - Three day maximum.
- Scheduling of set up should include efforts to hold off stage skirting installation until last possible moment and removed immediately after the event. This will allow for maximum light penetration and airflow.
- Ballasts should be situated on hardscape. If this is not possible, protect turf with four layers of Enkamat and two layers of plywood (3/4"). Cost recovery estimates should include sodding these areas with thick cut sod.
- All cables (power, audio, etc) shall be encased in Yellow Jacket wire troth (or approved equal).
 - Where a wire path crosses a known road or trail, ADA compliant Yellow jacket or approved equal must be used.



- The troth, where it crosses level 1 or 2 turf must be place on approved decking or 2 layers of Enkamat Plus gray.
- In a stage situation, cables should be flown over the steel, tied to stage or structure under the stage, and the mix position and not allowed to touch any grass area.
- Yellow Jacket on turf will need to be moved daily so that no area of turf is under it for more than 24 hours.
- Areas not requiring Yellow Jacket Troth but on the turf, the cable shall be laid on two layers of Enkamat and moved every 24 hours.
- Tear-down of the stage and structures should begin immediately following the load out of show productions. Unless conditions due to weather would cause tear down operations to damage the turf.
- An industrial magnet will be used over the entire area to recover screws, fasteners, etc.
- The turf manager will inspect the area for damage after the event in order to determine the extent of turf that will need to be replaced by sod.

Crate Storage and Bone Yards Prohibited

Crate storage, bone yards, and staging areas may never be located within turf areas; they must be located on hardscape areas or off-site. Bone yards may not be located on NPS roads.



Approved staging locations for pallets must be designated, and used during set up and take down only. Off-site preparation and construction in bone yards may be needed to support this. On-site staging areas are to be used for no more than two (2) days; staging and storage requiring lengths of greater than two (2) days must occur off-site.

Load In/Load Out Requirements

Load in and sevent set-up may not occur until the pre event walk through is complete. This is in order to establish the pre-event condition of the approved permit area in an effort to be able to assess any damage afterwards. This will include verification that the irrigation system (if present) is operable and to document any damage prior to set up.

With prior approval from the Superintendent's Office, set-up and take down of temporary facilities that involve protective decking on turf, work may occur in shifts twenty four hours per day, which is more than the maximum time allowed for these activities is greater than permitted in the SEPG (Special Events Permit Guide). Condensing loading hours will decrease the amount of time structures and temporary floor coverings are present on the turf, thus decreasing the potential for damage to the turf.

The Permittee will be responsible for paying personnel overtime charges related to the assignment of National Park Service employees and US Park Police for monitoring set-up and take down construction or security beyond an eight hour shift or on weekends.

A post event walk through with the Permit Specialist and the Turf Specialist is required to determine the extent of damage to the turf. The Permittee will be financially responsible for repair of damage to turf, area, and soil structure. Efforts to minimize the effect on the turf will reduce the need for this. The level 1 turf areas will be repaired with sod due to their high profile nature. In addition, repair may include but not limited to aeration, seeding, sodding, leveling, sodding, fertilization, and/or pesticide applications.

Use and Rest Periods

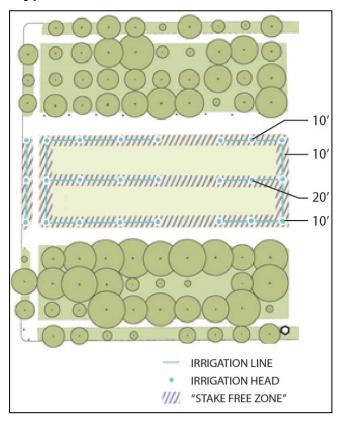
In order to best protect the health of the turfgrass, NPS will carefully consider if and how events may use turf areas. This includes whether or not turf requires a rest period before or after an event. These decisions will be made by the Turf Manager and Permit Specialist upon examination of an ever increasing body of knowledge that will be supplemented by information gained from each permitted activity.

The use of the turfgrass areas will be rotated, closing areas or portions of turf areas periodically for turfgrass renovation/recovery. Rotation is required to prevent all the turf areas from becoming devastated. NPS will accomplish this by scheduling and dispersing events to reduce concentration on a few turf areas; and planning renovation/recovery rotations to allow the turfgrass to regenerate. Repaired/restored areas may require up to 10 weeks to recover. During this time the area will be protected with ropes, posts, and signage.

If possible, when approving site layouts, NPS will work with Permittees to ensure that the layout of structures and circulation varies from recent and previous layouts in the area. This ensures that the same areas are not continuously used, thereby preventing damage such as compaction of soil or the deprivation of natural light reducing the amount of chlorophyll.

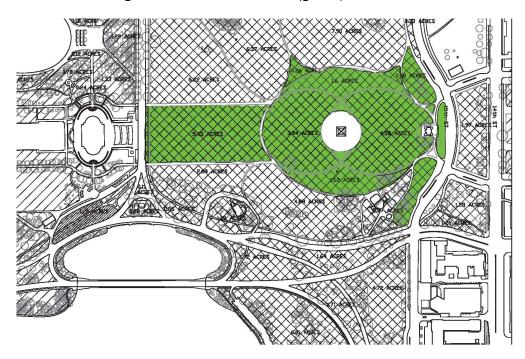


No Stake Zones - Typical Mall Panel

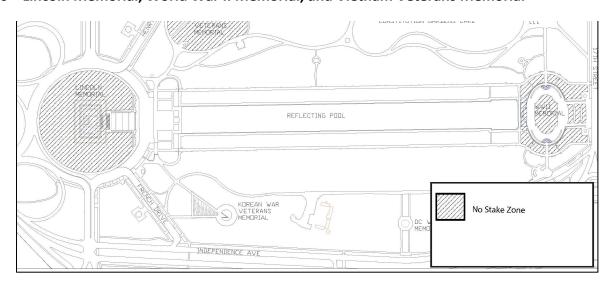




No Stake Zones – Washington Monument Grounds (green)

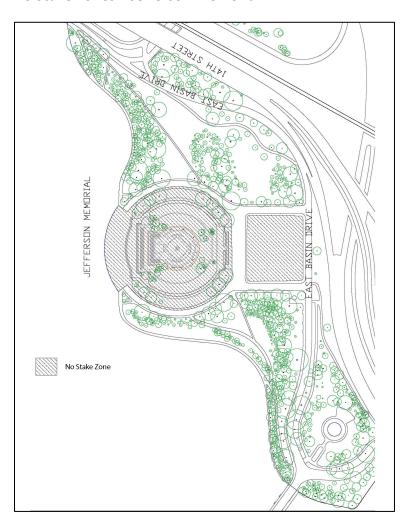


No Stake Zones – Lincoln Memorial, World War II Memorial, and Vietnam Veterans Memorial





No Stake Zones – Jefferson Memorial



5 Appendix

5.1 Code of Federal Regulations

36 CFR 1.5 through 1.10, available online at: $\frac{http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&SID=c2f1e94aa72e04fff4a29e36307f154a&tpl=/ecfrbrowse/Title36/36cfr1_main_02.tpl$

36 CFR 7.96 - National Capital Region, available online at: http://www.ecfr.gov/cgibin/textidx?c=ecfr&SID=c2f1e94aa72e04fff4a29e36307f154a&rgn=div8&view=text&node = 36:1.0.1.1.7.0.1.95



5.2 Special Events Planning Guide for the National Capital Region

The most recent version of the SEPG for the National Capital Region is available online at: INSERT NEW LINK WHEN AVAILABLE

5.3 Sample Application

Applications can be found online at http://www.nps.gov/nama/planyourvisit/permits.htm

5.4 Resources

5.4.1 Policy References

Refer to the following resources for additional information on policies:

- Special Events Planning Guide for the National Capital Region
- Americans with Disabilities Act: http://www.ada.gov/
- EPA Hazardous Materials Guidelines: http://www.epa.gov/osw/laws-regs/regs-haz.htm
- Concessions Policy Act (Public Law 105-391): http://www.doi.gov/ocl/2003/npsconman.htm
- Public Law 108-108, Title I, § 145: http://www.gpo.gov/fdsys/pkg/PLAW-108publ108.pdf
- NPS Management Policies 8.6.2.2: http://www.nps.gov/applications/npspolicy/index.cfm

5.4.2 Sources

The following sources were consulted in the creation of this Guide.

- Best Management Practices Used at Urban Parks in National and International Locations: A Background Report for the National Mall Plan. NPS (March 2007).
- Draft Elms of the Monumental Core History and Management Plan, NPS Natural Resource Report, NPS/NCR/NRR-2009/001.
- Evaluation of the Effects on Turf of Different Terraplas Pitch Protection Systems, Sports Turf Research Institute (July 2010).
- Event Impact Observation Study, HOK (2011).
- NAMA 151515 Specification Section 329219 part 3.11(2011).
- National Mall Trafficked Turf Systems Report for the National Park Service, Virginia Polytechnic Institute and State University Department of Crop and Soil Environmental Sciences (Fall 2010).
- NPS NCR Requirements 36 CFR 7.96 (g)
- Report on the National Mall Soil Compaction Evaluation (April 4, 2008).
- Requirements for Special Events Held on Parkland, National Park Service (Version 8-6-07-A).
- Resource Conservation Practice; Understanding and Managing Soil Compaction, Iowa State University (2009).
- Soils of the Mall in Washington, DC, 50 Soil Science Society of America Journal No. 3 (May-June 1986).
- Soil Compaction and Its Effects upon Urban Vegetation, Better Trees for Metropolitan Landscapes Symposium Proceedings, USA Forest Service Tech. Rep. NE-22 (1976).



- Summer 1992 Studies by CUE Confirm Compacted Mall Soils Memo, Center for Urban Ecology (1992).
- The Elms of the National Mall: Studies, Findings and Recommendations. Center for Urban Ecology (August 10, 1993).
- Trial to Evaluate Turf Protection Systems, Sports Turf Institute (2010).

5.4.3 Websites

The following websites may be visited for additional information on the agencies and services discussed in this guide.

- National Park Service Permitting Information: http://www.nps.gov/nama/planvisit/permits.htm/
- National Park Service Permitting FAQs: http://www.nps.gov/nama/planyourvisit/permits-faqs.htm/
- National Park Service Public Gathering Application: http://www.nps.gov/nama/planyourvisit/upload/NPS-Form-10-930-2010-special-use-new-phone-numberse.pdf/
- District Department of Transportation (DDOT): http://ddot.dc.gov/
- U.S. Park Police: http://www.nps.gov/uspp/
- Metropolitan Police Department: http://mpdc.dc.gov/
- DC Mayor's Special Events Task Group: http://mpdc.dc.gov/mpdc/cwp/view,a,1241,q,548278.asp
- Metrorail/Metrobus: http://www.wmata.com/
- Circulator: http://www.dccirculator.com/
- District of Columbia Department of Fire & Emergency Medical Services: http://fems.dc.gov/
- Department of Health: http://dchealth.dc.gov